

Monday March, 11

10:30am - 11:15am

Conference Opening: Geopolitical dialogue

Geopolitical hot spots around the world could threaten regional and even global stability, with potentially far-reaching consequences for energy markets. How are US concerns over Russian engagement in US elections affecting American international diplomacy? Given tensions across Turkey, Iran, Saudi Arabia, Syria, Yemen—and links to the United States and Russia—is there any scenario for stability in the Middle East? How do tensions among great powers exacerbate the risk of crises unraveling?

Carlos Pascual, Senior Vice President, IHS Markit
 Suzanne Maloney, Deputy Director of the Foreign Policy, The Brookings Institution
 Sir John Scarlett, Senior Advisor, Morgan Stanley
 Angela Stent, Author of Putin's World: Russia against the West and with the Rest, Director, Center for Eurasian, Russian and East European Studies at Georgetown University
 Michael Green, SVP for Asia and Japan Chair, Center for Strategic and International Studies (CSIS), Director of Asian Studies at Georgetown University

11:15am - 12:00pm

Fuels of the Future: The new rivalry

Daniel Yergin, Vice Chairman, IHS Markit
 Arnaud Breuillac, President, Exploration and Production, TOTAL S.A.
 Jack Fusco, President and Chief Executive Officer, Cheniere Energy
 Maarten Wetselaar, Integrated Gas and New Energies Director, Royal Dutch Shell plc

12:00pm - 12:25pm

Technology Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Andrew R. Jassy, Chief Executive Officer, Amazon Web Services (AWS)

12:30pm - 05:50pm

Lyceum Labs: Afternoon Labs
Developing Unconventional Assets: A simulation workshop 12:30pm - 03:30pm

Reed Olmstead, Director, North America Plays and Basins, Upstream Oil and Gas Insight, IHS Markit

The 5 Defining Characteristics of Shales 02:00pm - 02:50pm

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit

What Does Digitalization Really Mean? 02:00pm - 02:50pm

Babur Ozden, Founder and Chief Executive Officer, Maana, Inc.

Predicting the Unpredictable 03:00pm - 03:50pm

John Gibson, Senior Advisor, Tudor Pickering Holt and Co.

Cost and Innovation: Changing upstream dynamics 03:00pm - 03:50pm

Pritesh Patel, Executive Director, Capital Costs Analysis Forum, IHS Markit
 Basel Nashat Asmar, Director, Upstream Research, IHS Markit
 Andrew Day, Consulting Director, IHS Markit

Deep dive into fusion energy 04:00pm - 04:50pm

Bob Mumgaard, Chief Executive Officer, Commonwealth Fusion Systems

Low emission pathways: Identifying and modeling plausible alternatives 04:00pm - 04:50pm

Steven Knell, Director, Energy Wide Perspectives, IHS Markit
 Richard Vidal, Director, Global Energy Scenarios, IHS Markit
 Andrew Ellis, R and A, Data and Technical Design Executive Director, IHS Markit

10 Trends Changing Our Lives 05:00pm - 05:50pm

Chris Luebke, Director for Global Foresight, Research and Innovation, ARUP

Competition between short and long cycle crude oil supply 05:00pm - 05:50pm

Reed Olmstead, Director, North America Plays and Basins, Upstream Oil and Gas Insight, IHS Markit
 Nick Thomson, Director, Research and Analysis, Upstream, IHS Markit

10 Trends changing our lives 05:00pm - 05:50pm

Chris Luebke, Director for Global Foresight, Research and Innovation, ARUP

12:30pm - 01:15pm

Voices of Innovation with Ernest Moniz and Lord John Browne: What will it take to transform the global energy system?

Hear from a legendary energy expert on challenges of energy transition and the role of the United States as the engine of innovations. Interviewed by visionary leader Lord John Browne.

Lord Browne, Executive Chairman, L1 Energy
 Dr. Ernest Moniz, President and Chief Executive Officer, Energy Futures Initiative

12:40pm - 01:50pm

Luncheon and Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Andrew Wheeler, Administrator, US Environmental Protection Agency (EPA)

01:50pm - 02:15pm

Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Eldar Sætre, President and CEO, Equinor ASA

02:00pm - 06:00pm

Agora Pods: Afternoon Sessions

Innovate and transform fast in oil and gas 02:00pm - 02:30pm

Arno van den Haak, Head, Worldwide Business Development Oil and Gas, Amazon

AI Comes of Age 02:00pm - 02:30pm

Sammy Haroon, Founder and CEO, AlphaX Decision Sciences

Driving Profitability with Advanced Analytics 02:00pm - 02:30pm

Steven Sliwa, Chief Executive Officer and Founder, Seeq Corporation

The Arrival of Commercial Fusion Energy 02:30pm - 03:00pm

Bob Mumgaard, Chief Executive Officer, Commonwealth Fusion Systems

How do corporates and startups create value together? 02:30pm - 03:00pm

Audun Abelsnes, Managing Director, Techstars Energy
 Jens Festervoll, Corporate Liaison, Equinor

A Journey into Industrial Machine Learning: a case study 02:30pm - 03:00pm

Cedric Fraces, Lead Data Scientist, Oil and Gas, 2predict

How can you use oilfield water intelligence to achieve your goals? 03:00pm - 03:30pm

Josh Adler, Founding CEO, Sourcewater

Creating connected ecosystems in oil and gas 03:00pm - 03:30pm

Bobby Dornbos, Principal Solution Engineer, Salesforce

Unlocking Methane Reductions through Virtual Reality 03:00pm - 03:30pm

Isabel Mogstad, Senior Manager, EDF+Business, Environmental Defense Fund
 Erik Horn, Co-Founder and Chief Creative Officer, Fair Worlds

Harnessing data analytics to reduce risk for oil and gas operators and insurers 03:30pm - 04:00pm

William (Bill) Hahn, Software Solutions Consultant, Siemens PLM Software

REDD + (Reducing Emissions from Deforestation and Degradation) 101 03:30pm - 04:00pm

Gerald Prolman, President, Everland

Multi-party collaboration for more efficient shipping 03:30pm - 04:00pm

Matthew Costello, Chief Executive, Co-Founder, Voyager

Powering disruption 04:00pm - 04:30pm

Ben Bodishbaugh, Chief Executive Officer, Evolution Well Services

Designing Cities as Dynamic Systems and Interfaces 04:00pm - 04:30pm

Amy Korté, Principal, Arrowstreet Inc.

Using robots for inspection when it is unsafe for humans 04:30pm - 05:00pm

Nick Tillmann, Co-Founder, President and CEO, inRobotics
 Fathi Ghorbel, Co-Founder and CTO, inRobotics

Monitoring Cement Conditions in Real-Time with Smart Cement 04:30pm - 05:00pm

Ody De La Paz, Chief Executive Officer, Sensytec, Inc.

Using AI-based software to transform data into efficiency and cost savings 05:00pm - 05:30pm

John Lovell, VP Technology and Strategy, MicroSilicon

Diving deep in machine learning for your industry 05:00pm - 05:30pm

Dan Mbanga, Principal Business Development Manager, Amazon AI, Amazon Web Services (AWS)

Digital technology empowers the modern energy workforce: Case Studies 05:30pm - 06:00pm

Abhilash Nair, Senior Principal Technical Sales Consultant, Aveva

02:00pm - 02:30pm

Voices of Innovation with Andrew Jassy: Innovation at Scale

Andy Jassy will share his insights and experiences leading one of the world's fastest growing companies, how to innovate at scale, and his vision for what's ahead in the cloud and some of the exciting applications for energy. Interviewed by Jamey Rosenfield, Founder and Co-Chairman of CERAWEEK and the Innovation Agora, and SVP, IHS Markit.

James Rosenfield, Senior Vice President IHS Markit, CERAWEEK Co-Chairman, IHS Markit
 Andrew R. Jassy, Chief Executive Officer, Amazon Web Services (AWS)

02:00pm - 03:30pm

Lyceum Workshop: Developing Unconventional Assets: A simulation workshop

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit

02:00pm - 03:30pm

Hydrogen as a Clean Energy Fuel

The extent of the impact of environmental policies on energy businesses remains uncertain; the reach and depth of decarbonization is subject to continued political debate. However, prudent strategic planning for business must incorporate the possibility of economy-wide deep decarbonization policies. These policies could become a risk to a company's current operations and the value of its assets—or can offer an opportunity for new, profitable areas of activity. The implementation of economy-wide decarbonization will require innovation that goes beyond established practices that promote renewable electricity, energy efficiency, and biofuels. Above all, a zero-carbon energy path will have to replicate the energy density, the ease of transport and storage, and flexibility in use that hydrocarbons deliver today. Hydrogen can deliver precisely this functionality.

02:30pm - 03:15pm

Agora Studios
Driverless Technology: The real disruptor 02:30pm - 03:15pm

Jeremy Carlson, Principal Analyst and Manager, IHS Markit
 Rebecca Yergin, Associate, Covington and Burling LLP
 Robbie Diamond, President and Chief Executive Officer, Securing America's Future Energy (SAFE)
 Chris Luebke, Director for Global Foresight, Research and Innovation, ARUP

Carbon Trading: Will blockchain change the game? 02:30pm - 03:15pm

Andrew Fleeter, Product Head for the Environmental Registry, IHS Markit
 Kathy Benini, Managing Director, Pricing and Valuation and Reference Data, IHS Markit
 Ruben Lubowski, Chief Natural Resource Economist, Environmental Defense Fund
 Gerald Prolman, President, Everland
 Don D'Souza, Unit Head for Industrial Mitigation, British Columbia Ministry of Environment and Climate Change Strategy

02:30pm - 03:15pm

Company Strategies in a Time of Change

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Musabbeh Al Kaabi, Chief Executive Officer, Petroleum and Petrochemicals, Mubadala Investment Company
 Lisa Davis, CEO Global Energy and Member of the Managing Board, Siemens AG
 John Hess, Chief Executive Officer, Hess Corporation
 Shunichi Miyanaga, President and Chief Executive Officer, Mitsubishi Heavy Industries

02:30pm - 03:15pm

Energy: What do investors really want?

With the advent of the shale era and the price volatility of the past few years, investors appear to be losing faith in an industry facing short- and long-term challenges. The challenge of the industry, requiring a high level of investments, appears to be on a collision course with investors looking for stronger capital discipline and higher shareholders return. This panel of shareholders will discuss the challenges ahead in investing in oil and gas.

Roger Diwan, Vice President, Financial Services, IHS Markit
 Osmar Abib, Jr., Chairman of Global Energy, Credit Suisse
 Marcel van Poecke, Head of Carlyle International Energy fund, Carlyle International Energy Partners (CIEP)
 Nathan Strik, Portfolio Manager, Fidelity Management and Research Company

03:15pm - 04:00pm

Agora Studios
AI and the Energy System: Disruption or transformation? 03:15pm - 04:00pm

Dan Mbanga, Principal Business Development Manager, Amazon AI, Amazon Web Services (AWS)
 Paul Orland, Co-Founder and CEO, Tachyus
 Morag Watson, Vice President, BP

Agile + Additive = Manufacturing Without Borders 03:15pm - 04:00pm

Jonah Myerberg, Co-founder and Chief Technology Officer, Desktop Metal
 Charlie Atkins, Director of Development, Wyoming Innovation Park
 Jon Hirschtick, Co-Founder and CEO, Onshape Inc.
 Greg Powers, Vice President of Innovation, Halliburton
 Robert Braverman, Vice President Industrial Technology, IHS Markit

03:20pm - 04:05pm
Special Dialogue on China

Daniel Yergin, Vice Chairman, IHS Markit
 Hou Qijun, Group Vice President, China National Petroleum Corporation (CNPC)

03:20pm - 04:05pm
Digital Transformation: Creating value

The oil and gas industry has embraced digitalization over the past few years as a means to effectively manage costs and raise efficiencies in a challenging oil price environment. As industry players seek the next wave of value they're often finding that the best opportunities lie at the interfaces – leveraging digital capabilities to integrate across the oil and gas value chain and lifecycle, as well as across functional and organizational boundaries. Successfully navigating such pursuits will not only transform how companies develop and operate their oil and gas resources, but also how they engage their customers and business partners. This session will explore where value has been achieved thus far, where it will be created in the future, and what it will take to truly maximize returns.

David Hicks, Senior Vice President, Upstream Energy, IHS Markit
 Ahmad O. Al-Khowaiter, Chief Technology Officer, Saudi Aramco
 Lal Karsanbhai, Executive President, Automation Solutions, Emerson
 Babur Ozden, Founder and Chief Executive Officer, Maana, Inc.
 Yuri Sebregts, Executive Vice President Technology and Chief Technology Officer, Royal Dutch Shell plc

03:20pm - 04:05pm
Climate Strategies in a World of Rivalry

COP24 achieved a rule book to implement the Paris Agreement but left a massive gap between pledged actions and Paris targets to limit increases in global temperature. How sure are we of what needs to be achieved? Where can we find the biggest gains for emissions reductions—from carbon sinks to carbon sequestration? What incentives are needed to stimulate private investment in solutions and R and D?

Carlos Pascual, Senior Vice President, IHS Markit
 Mark Little, President and Chief Operating Officer, Suncor Energy
 Dr. Ernest Moniz, President and Chief Executive Officer, Energy Futures Initiative
 Jennifer Morris, President, Conservation International (CI)
 Maria Zuber, Vice President for Research and E. A. Griswold Professor of Geophysics, MIT

04:00pm - 06:00pm
Lyceum Workshop: Blockchain for the Boardroom: An interactive workshop

Energy leaders will get hands-on experience with a live distributed ledger platform. This Lyceum Workshop will use an energy supply chain example to demonstrate the relationship between human-readable contracts, live data and their implementation in smart contracts on blockchain. You will walk step-by-step through the automated contract execution process.

William Fox, Chief Product Officer, Data Gumbo
 Lisa M. Smith, Chief Corporate Development Officer, Data Gumbo

04:00pm - 04:30pm
Book Signing with Angela Stent

Join world-renowned expert on Russia and geopolitics Angela Stent and receive a signed copy of her book, *Russia Against the West and with the Rest*.

Angela Stent, Author of *Putin's World: Russia against the West and with the Rest*, Director, Center for Eurasian, Russian and East European Studies at Georgetown University

04:20pm - 04:45pm
Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Vagit Alekperov, President and Chairman of the Management Committee, PJSC LUKOIL

04:30pm - 05:15pm
Agora Studios
Oil and Gas: Realizing value from digital transformation 04:30pm - 05:15pm

Judson Jacobs, Executive Director, Upstream Technology, Energy, IHS Markit
 Nick Farrant, Senior Vice President, Industry - Oil and Gas, Uptake Technologies

Michelle Pflueger, General Manager, Digital Innovation and Acceleration, Chevron Corporation
 Justin Rounce, EVP and Chief Technology Officer, TechnipFMC
 Arno van den Haak, Head, Worldwide Business Development Oil and Gas, Amazon
 Tom Moroney, Senior Director - Operations Technology, Chesapeake Energy Corporation

Voices of Innovation with Fatih Birol: Solving Energy and Climate Puzzle 04:30pm - 05:15pm

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Dr. Fatih Birol, Executive Director, International Energy Agency (IEA)

04:45pm - 05:10pm

Carbon Management Strategies

Daniel Yergin, Vice Chairman, IHS Markit
 Vicki Hollub, President and Chief Executive Officer, Occidental Petroleum Corporation

05:10pm - 05:50pm

US Energy Policy Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Hon. Lisa Murkowski, US Senator, Alaska, and Chairman, US Senate Energy and Natural Resources Committee
 Hon. Joe Manchin, US Senator, West Virginia, and Ranking Member, US Senate Energy and Natural Resources Committee

05:45pm - 06:30pm

Innovative Pathways to Affordable Hydrogen Production

Significant progress is being made in reducing the cost of hydrogen. But it still is not economically competitive, in both money and energy terms, to produce, store, and convert hydrogen back to useful energy. Many innovative approaches are being tested; most are not at scale. What are the most promising technologies and what are the roadblocks to scale hydrogen production?

Shankari Srinivasan, Vice President, Energy, IHS Markit
 Enass Abo-Hamed, Chief Executive Officer, H2GO Power
 Sam French, Business Development Manager, Johnson Matthey
 R. K. Malhotra, Director General, Federation of Indian Petroleum Industry (FIPI)
 Everett Anderson, Vice President, Advanced Product Development, Nel Hydrogen

05:45pm - 06:30pm

Voices of Innovation: Ashok Belani and Blake Moret

Join Ashok Belani and Blake Moret as they share their vision to create end-to-end solutions and technology platform to automate entire upstream operations from drilling to production, well to terminal, conventional and unconventional, onshore and offshore. Will this be the answer to provide complete lifecycle and process automation solutions? Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Ashok Belani, Executive Vice President of Technology, Schlumberger Limited
 Blake Moret, Chairman and Chief Executive Officer, Rockwell Automation

05:50pm - 06:30pm

Global Oil Markets Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 HE Mohammad Sanusi Barkindo, Secretary General, Organization of the Petroleum Exporting Countries (OPEC)
 Dr. Fatih Birol, Executive Director, International Energy Agency (IEA)

06:30pm - 07:30pm

Conference-wide Reception

07:30pm - 09:00pm

Insight Dinners (view more +)

Crossing the Digital Divide: Company strategies for a new world 07:30pm - 09:00pm

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit
 Judson Jacobs, Executive Director, Upstream Technology, Energy, IHS Markit
 Ahmed Hashmi, Chief Digital and Technology Officer, Upstream, BP plc.
 Sanjay Paranjhi, Vice President and Chief Technology Officer, Anadarko Petroleum Corporation
 Bill Vass, Vice President of Technology, Amazon Web Services (AWS)

Driving Change: Cities as the new frontier of mobility 07:30pm - 09:00pm

Katherine Hardin, Vice President, IHS Markit
 David Sandalow, Inaugural Fellow, Center on Global Energy Policy, Columbia University, Columbia University Center on Global Energy Policy
 Dr. V. Sumantran, Chairman, Celeris Technologies
 Stanley Young, Advanced Transportation and Urban Scientist, National Renewable Energy Laboratory (NREL)
 Tom De Vleeschauwer, Vice President, Automotive, IHS Markit

Investment Strategies in a Low-Carbon World 07:30pm - 09:00pm

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Al Cook, EVP, Global Strategy and Business Development (GSB), Equinor ASA

Bashir Dabbousi, Director, Technology Strategy and Planning, Saudi Aramco
Andy Karsner, Managing Partner, Emerson Collective
Dr. Ernest Moniz, President and Chief Executive Officer, Energy Futures Initiative

North Sea: The revival continues 07:30pm - 09:00pm

Jon Story, Senior Director, Energy, IHS Markit
Alex Grant, Head of Business Development Origination and Execution, Equinor ASA
Maria Moræus Hanssen, Chief Executive Officer, DEA Deutsche Erdoel AG
Karl Johnny Hersvik, Chief Executive Officer, Aker BP
Bente Nyland, Director General, Norwegian Petroleum Directorate
Stuart Payne, Director of HR and Supply Chain, UK Oil and Gas Authority
Sam Laidlaw, Chairman, Neptune Energy
Bob Maguire, Managing Director, Carlyle International Energy Partners (CIEP)

Plastics Sustainability: Meeting the challenge 07:30pm - 09:00pm

Dewey Johnson, VP, Research and Analysis, Chemical, IHS Markit
Paul Augustowski, Senior Vice President of Olefins and Polyolefins, Americas, LyondellBasell
Roberta Barbieri, Vice President for Global Sustainability, PepsiCo
Anne Womack Kolton, Executive Vice President, Communications, Sustainability and Market Outreach, American Chemistry Council
Mike Witt, Vice President, Plastics Circular Economy, The Dow Chemical Company

The Outlook for the Global Economy: A reversion to trend growth—or worse? 07:30pm - 09:00pm

Nariman Behraves, IHS Markit, Chief Economist
Kairat Kelimbetov, Governor, Astana International Financial Centre (AIFC)
Antony Phillipson, Her Majesty's Trade Commissioner (HMT) for North America, British Consulate General New York
Joel Prakken, Chief US Economist and co-head of US Economics, Macroeconomic Advisers, IHS Markit
Eirik Wærness, Senior Vice President and Chief Economist, and Head of Strategy MMP, Equinor

US Energy Abundance and Geopolitics 07:30pm - 09:00pm

Carlos Pascual, Senior Vice President, IHS Markit
Dr. Fatih Birol, Executive Director, International Energy Agency (IEA)
Jason Bordoff, Professor of Professional Practice and Founding Director, Center on Global Energy Policy Columbia University
Francis R. Fannon, Assistant Secretary for the Bureau of Energy Resources (ENR), US Department of State
Richard G. Newell, President and CEO, Resources for the Future (RFF)
Meghan O'Sullivan, Jeane Kirkpatrick Prof., Practice of International Affairs, Director - Geopolitics of Energy Project, Harvard University's Kennedy School

Workforce of the Future 07:30pm - 09:00pm

Ronnie West, Chief People Officer, IHS Markit
Tasnim Al Mzaini, Head of Integrated Production Planning, Digital Unit, Abu Dhabi National Oil Company (ADNOC)
Jim Nyquist, Group President Systems and Solutions, Emerson
Dr. Antonio Merlo, George A. Peterkin Professor of Economics and Dean of the School of Social Sciences, Rice University
Megan Bloomgren, Vice President of Communications, American Petroleum Institute (API)

Tuesday March, 12

07:30am - 08:15am

Voices of Innovation with Jason Zander: Cloud meets energy

Join this conversation with a leader of one of the world's most successful technology companies on how the cloud is changing the energy system. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
Jason Zander, Executive Vice President, Microsoft Corporation
Jim Green, GM IT Service Delivery, Chevron Corporation

07:30am - 08:40am

Strategic Dialogues (Breakfast) (view more +)

National Oil Companies: Repositioning portfolios for growth 07:30am - 08:40am

Nick Sharma, Executive Director, Asia Pacific, Upstream Oil and Gas Insight, IHS Markit
Omar Al Suwaidi, Director, Executive Office, Abu Dhabi National Oil Company (ADNOC)
Azman Aziz, Senior General Manager, Strategy and Commercial, Upstream Business, PETRONAS
Dharmawan Samsu, Upstream Director, PT Pertamina
Xiansheng Sun, Secretary General, International Energy Forum (IEF)

Carbon Price: How critical for decarbonization? 07:30am - 08:40am

Steven Knell, Director, Energy Wide Perspectives, IHS Markit
Raymond J. Kopp, Vice President, Energy and Climate Program, Resources for the Future
Sarah Ladislav, Senior Vice President and Director, Energy and National Security Program, Center for Strategic and International Studies (CSIS)
Katie Sullivan, Managing Director, International Emissions Trading Association (IETA)

Bjørn Otto Sverdrup, Senior Vice President, Sustainability, Equinor

Competing for Upstream Investment: Rewriting Africa's story 07:30am - 08:40am

Daniel Berkove, Senior Associate, Energy, IHS Markit
Timothy Kabba, Director General, Sierra Leone Petroleum Directorate – Office of the President
Andrew Kamau, Principal Secretary, State Department of Petroleum, Ministry of Petroleum and Mining, Kenya
HE Gabriel M. Obiang Lima, Equatorial Guinea Minister, Ministry of Mines and Hydrocarbons,
Hon. Dr. Mohammed Amin Adam, Deputy Minister of Energy for Petroleum, Ministry of Energy, Ghana

Digitalization: Innovating for lowest costs 07:30am - 08:40am

Pritesh Patel, Executive Director, Capital Costs Analysis Forum, IHS Markit
André Luyckx, Upstream Digital Transformation Manager, ExxonMobil
Karl Johnny Hersvik, Chief Executive Officer, Aker BP
Peter Herweck, EVP, Industrial Automation, Schneider Electric
Judson Jacobs, Executive Director, Upstream Technology, Energy, IHS Markit
Binu Mathew, SVP and Global Head, Digital Products, Baker Hughes, a GE company

Latin Energy: Aiming for competitiveness 07:30am - 08:40am

Bob Fryklund, Chief Upstream Strategist, Energy, IHS Markit
Felipe Arbelaez, Regional President, Latin America, BP
Gustavo Baquero, SVP, Operations Technology Excellence, Development and Production International, Equinor
Enrique Hidalgo, President, ExxonMobil Exploracion y Produccion Mexico, ExxonMobil

North American Refining: Will it remain an export powerhouse? 07:30am - 08:40am

Kevin Lindemer, Managing Director, Downstream Consulting, Energy, IHS Markit
Keith Chiasson, Executive Vice-President, Downstream, Cenovus
Tom Kloza, Global Head of Energy Analysis, Oil Price Information Service (OPIS), IHS Markit
Robert Kreider, Head of Strategic Management and Development Group, North America, Trafigura

Offshore Revival: Retesting the deep water? 07:30am - 08:40am

Gerald Kepes, Executive Director, Plays and Basins, Upstream Oil and Gas Insight, IHS Markit
Stephen Greenlee, President, ExxonMobil Exploration Company and Vice President, Exxon Mobil Corporation, ExxonMobil Corporation
Kevin McLachlan, Senior Vice President Exploration, TOTAL S.A.
Emeliana Rice-Oxley, Vice President Exploration, Upstream, PETRONAS
Torggrim Reitan, Executive Vice President, Development and Production International (DPI), Equinor

Overcoming the constraints: Unlocking Canada's oil and gas potential 07:30am - 08:40am

Kevin Birn, Vice President, North American Crude Oil Market, IHS Markit
Janet Annesley, Senior Vice President, Corporate Affairs, Husky Energy
Susannah Pierce, Director External Affairs, LNG Canada
Steve Reynish, Executive Vice President, Strategy and Operations Services, Suncor Energy

Reinventing Transportation: Buses, transit and fleets 07:30am - 08:40am

Katherine Hardin, Vice President, IHS Markit
Stephanie Medeiros, Electric Vehicles Charging Infrastructure - Canada, ABB
Chris Nordh, Senior Director – Advanced Vehicle Technology and Energy Products, Ryder System, Inc.
Vic Shao, Chief Executive Officer, AMPLY Power
Sergej Mahnovski, Director, Growth and Innovation, Edison International

Realigning the Global Oil Order 07:30am - 08:40am

Bhushan Bahree, Executive Director, Global Oil, IHS Markit
Ibrahim Al-Muhanna, Consultant and Advisor to Saudi Oil Ministry, Ministry of Energy, Industry and Mineral Resources, Saudi Arabia
David Goldwyn, Chairman, Energy Advisory Board, Atlantic Council
Christof Rühl, Economist, Crystol Energy
Matthew Sagers, Executive Director, Energy, IHS Markit
Vera de Ladoucette, Distinguished Expert in International Relations and the Energy Industry, IHS Markit
Xiansheng Sun, Secretary General, International Energy Forum (IEF)

Wellhead to Water: Getting US oil to market 07:30am - 08:40am

Aaron Brady, Senior Director, Energy, IHS Markit
Chris Chandler, EVP and Chief Operating Officer, Plains All American Pipeline, LP
Ferris J. Hussein, Managing Director, The Carlyle Group
Dan House, Head of Physical U.S. Crude Trading, Mercuria Energy Group
Darryl Rogers, Vice President, Midstream Oil and NGL Research and Consulting, Energy, IHS Markit
Sean Strawbridge, Chief Executive Officer, Port Corpus Christi

08:50am - 09:15am

Welcome and Special Address

Daniel Yergin, Vice Chairman, IHS Markit
William Clay Ford, Jr., Executive Chairman, Ford Motor Company

09:00am - 12:00pm

Agora Pods: Morning Sessions

From Carbon to Cash: New Models for Energy Resource Efficiency 09:00am - 09:30am

Ana Gonzalez Hernandez, Resource Efficiency Consultant and Commercialization Manager, Emerson

Application of Blockchain to Industry 09:00am - 09:30am

Andrew Bruce, Chief Executive Officer, Data Gumbo

Silicon Valley Disruptive Approaches 09:00am - 09:30am

Amit Mehta, Chief Executive, Mobilize

A Knowledge Integration Perspective on Major Capital Projects and Operations 09:30am - 10:00am

Javier Canon, Director, MAANA

Going Digital: Managing Data in Oil and Gas 09:30am - 10:00am

Gregory Servos, President and Chief Executive Officer, OvationData

Digitalization in Oil and Gas: case studies 09:30am - 10:00am

Semen Budenny, Head of Department of Digital Technologies in Industry, MIPT Center for Engineering and Technology, MIPT Centre of Engineering and Technology

Deep Dive on Machine Learning for Energy Outcomes 10:00am - 10:30am

Adam McElhinney, Chief of Machine Learning and AI Strategy, Uptake

The Changing Geopolitical Landscape for Minerals and Metals in the Energy Transition 10:00am - 10:30am

Morgan D. Bazilian, Ph.D., Director, Payne Institute and Professor of Public Policy, Colorado School of Mines

What is the OOC Blockchain Consortium? 10:00am - 10:30am

Rebecca Hofmann, US Blockchain Strategy and Innovation, Equinor US

Understanding Unconventional Oil and Gas Productivity: Challenges and opportunities 10:30am - 11:00am

Justin Montgomery, PhD Candidate, Computational Science and Engineering, MIT

Virtual Incremental Gallons, Digital Fuel 10:30am - 11:00am

A Robotic Wellbore Intervention Technology Development Project 11:00am - 11:30am

Henning Hansen, R and D Manager, Aarbakke Innovation AS

The Engine: How a new venture model empowers tough tech startups 11:00am - 11:30am

Reed Sturtevant, General Partner, The Engine

Mobility as an Amenity 11:00am - 11:30am

Aric Ohana, Co-Founder, Envoy There

Seeq: Advanced Analytics for Oil and Gas 11:00am - 11:30am

Hossein Rokhsare, Partner, Darcy Partners

Data residency perspectives 11:30am - 12:00pm

Bill Vass, Vice President of Technology, Amazon Web Services (AWS)

How to Build a Holistic Cyber Security Approach for your Enterprise 11:30am - 12:00pm

Susan Peterson Sturm, Digital Lead, Energy Industries, ABB

09:00am - 05:30pm

Agora Pods: Afternoon Sessions

Decarbonization vs. Profit: Eliminating the Rivalry Through Exergy 09:00am - 09:30am

Ana Gonzalez Hernandez, Resource Efficiency Consultant and Commercialization Manager, Emerson

Tuesday Afternoon Agora Pods 12:00pm - 05:30pm

Subsea Electrification: The Gateway for Industry 4.0 02:00pm - 02:30pm

Per Erik Holsten, Vice President, Hub BU Manager for North Europe, ABB AS
 Katrine Hilmen, Head of Engineering and Technology Studies, IA Energy, ABB

Enabling digital transformation and data sovereignty through the intelligent edge 02:00pm - 02:30pm

Dramatically Increase Recovery with World's Most Autonomous Boosting System 02:30pm - 03:00pm

Alexander Fuglesang, Founder and CEO, FSubsea AS

Improving Production Efficiency and Debottlenecking with Filtration Technologies 02:30pm - 03:00pm

Shreya Dave, Co-founder and CEO, Via Separations

Organizational Analytics 02:30pm - 03:00pm

Ben Waber, Chief Executive Officer, Humanyze

Unlocking the Economic Potential of Digital Twins 03:00pm - 03:30pm

Thomas Leurent, Chief Executive Officer, Akselos

AI-aided Digital Technologies for Exploration and Production of Hydrocarbons 03:00pm - 03:30pm

Dmitry Koroteev, Founder, Digital Petroleum and Associate Professor, Skoltech

Unlocking Methane Reductions through Virtual Reality 03:00pm - 03:30pm

Isabel Mogstad, Senior Manager, EDF+Business, Environmental Defense Fund
 Erik Horn, Co-Founder and Chief Creative Officer, Fair Worlds

AI-Driven Well Timelines for Well Optimization 03:30pm - 04:00pm

Jeff Dalgliesh, Director, Oil Field Digital Transformation, MAANA

Intelligent Control for a Dynamic World 03:30pm - 04:00pm

Peter Harding, Chief Executive Officer, Kelvin

Beyond hype: Practical Roadmap to Digital Transformation 04:00pm - 04:30pm

Chris Hamlin, Director Operational Certainty Consulting, Emerson

New security systems to enable tomorrow's innovations 04:00pm - 04:30pm

Science vs Engineering in Oilfield Practice: A Case study 04:00pm - 04:30pm

Aleksandr Bochkarev, Chief Executive Officer, Phystech Geoservice, LLC

Enabling sub-surface intelligence in the Cloud 04:30pm - 05:00pm

Hussein Shel, Azure Global, Principal Program Manager, Microsoft

Drones, Disruption, and Energy 04:30pm - 05:00pm

Dave Culler, Head of Energy, Precision Hawk

Shortening the learning curve for hydraulic fracture simulation 05:00pm - 05:30pm

Garrett Fowler, Vice President of Operations, ResFrac Corporation

09:00am - 11:50am

Lyceum Labs: Morning Labs

Vehicle Electrification - Understanding the Basics 09:00am - 09:50am

Andrew Fulbrook, Executive Director of Powertrain and Compliance Forecasting, IHS Markit

Advanced Manufacturing and Drilling Technology in Industry 4.0 09:00am - 09:50am

C. Fred Higgs III, Professor of Mechanical Engineering, Rice University

Digitalization Deployed, from Advanced Analytics to Artificial Intelligence 10:00am - 10:50am

Ben Bishop, Digital Innovation Specialist, Siemens

Stig Olav Settemsdal, CTO Offshore Solutions, Siemens

Defining Autonomous Operations 10:00am - 10:50am

Guido Jouret, Chief Digital Officer, ABB

Susan Peterson Sturm, Digital Lead, Energy Industries, ABB

Will Retail Fuel Price Populism Freeze Downstream Investment in Mexico and Brazil 11:00am - 11:50am

Tom Kloza, Global Head of Energy Analysis, Oil Price Information Service (OPIS), IHS Markit

Felipe Perez, Consulting Director, Oil Markets, Midstream and Downstream, Energy, IHS Markit

09:15am - 09:40am

Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit

Mike Wirth, Chairman of the Board and Chief Executive Officer, Chevron

09:15am - 10:00am

Agora Studios

Renaissance of Biofuels: Opportunities for scale 09:15am - 10:00am

Gauri Jauhar, Executive Director, Integrated Solutions, Energy Wide Perspectives, IHS Markit

Dr. SSV Ramakumar, Director of Research and Development, Indian Oil Corporation

Dr. Vijay Swarup, Vice President of Research and Development, ExxonMobil Research and Engineering Company

Cynthia (CJ) Warner, President and CEO, Renewable Energy Group (REG)

Sea Change: Autonomy, automation, offshore and the ocean 09:15am - 10:00am

James Bellingham, Director, Center for Marine Robotics, Woods Hole Oceanographic Institution

Diana Grauer, Director, External Technology Engagement – North America, TechnipFMC

Nicolaus Radford, Chief Technology Officer, Houston Mechatronics

Dr. Patrick Sobalvarro, President and Chief Executive Officer, Veo Robotics

Josh Broussard, Technical Director, Ocean Infinity

09:15am - 10:00am

Voices of Innovation with United States Department of Energy National Labs: New frontiers of research

What will be the most transformative technologies as we look back 20 years from now? Hon. Paul Dabbar, U.S. Department of Energy Under Secretary for Science, will lead a dialogue with the heads of three US National Laboratories on their role in tackling energy's hardest challenges.

Hon. Paul Dabbar, Under Secretary for Science, United States Department of Energy (DOE)

Brian J. Anderson, Director, National Energy Technology Laboratory (NETL)
 Doon Gibbs, Laboratory Director, Brookhaven National Laboratory
 Thomas Zacharia, Laboratory Director, Oak Ridge National Laboratory

09:40am - 10:05am
Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 H.E. Suhail Mohamed Al Mazrouei, Minister of Energy and Industry, United Arab Emirates

10:05am - 10:30am
Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Gary Heminger, Chairman and Chief Executive Officer, Marathon Petroleum Corporation

10:30am - 10:55am
Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Jason Zander, Executive Vice President, Microsoft Corporation

10:30am - 11:15am
Agora Studios
Energy Infrastructure: How vulnerable to cyber attack? 10:30am - 11:15am

Jeff Wilson, Research Director and Advisor, Cybersecurity Technology, IHS Markit
 Benjamin Beberness, VP and Global Head, Oil and Gas Business Industry Unit, SAP
 Taher Elgamal, Chief Technology Officer, Security, Salesforce
 Gary Freburger, President Process Automation, Schneider Electric
 Michael Lester, Director - Cybersecurity Strategy, Governance and Architecture, Emerson

The Quiet ICE Revolution: New tech driving new directions 10:30am - 11:15am

Fellipe Balieiro, Director of Energy and Mobility, Refining and Marketing, IHS Markit
 Ahmad O. Al-Khowaiter, Chief Technology Officer, Saudi Aramco
 Bill Green, Hoyt C. Hottel Professor in Chemical Engineering, MIT
 Dr. SSV Ramakumar, Director of Research and Development, Indian Oil Corporation
 Michael Buhr, Chief Executive Officer, Fild

10:30am - 11:15am
Voices of Innovation with Ulrich Spiesshofer: Leading the digital transformation

ABB CEO Ulrich Spiesshofer explores some of the big questions facing the energy industry in the coming years: How are digital technologies transforming energy sector? How is ABB preparing its workforce for this brave new world? And will oil and gas remain a major part of the energy mix for the foreseeable future? Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Ulrich Spiesshofer, President and Chief Executive Officer, ABB Ltd.

10:30am - 12:30pm
Mapping the energy transition with scenarios--an interactive workshop

In this Lyceum Workshop, we will apply the IHS Markit scenario building methodology and extensive group interaction to develop high-level long-term scenarios focused on economy-wide deep decarbonization, and the potential technological and socio-political challenges. Participants will be divided into teams, each to explore and develop a plausible scenario.

Mark Griffith, Senior Research Director, IHS Markit
 Steven Knell, Director, Energy Wide Perspectives, IHS Markit
 Catherine Robinson, Executive Director, IHS Markit
 Richard Vidal, Director, Global Energy Scenarios, IHS Markit

10:55am - 11:20am
Leadership Dialogue

Roberto Castello Branco, Chief Executive Officer, Petrobras
 Carlos Pascual, Senior Vice President, IHS Markit

11:35am - 12:35pm
Agora Studios
Collaborative Robots: Robots and humans in the future workplace 11:35am - 12:35pm

Ian Weightman, Senior Vice President, Technology, IHS Markit
 Roger Barga, General Manager, Robotics and Autonomous Services, Amazon Web Services
 Nicolas De Keijser, Manager, Sales and Marketing, ABB
 Dave Culler, Head of Energy, Precision Hawk

Is Data the New Oil? 11:35am - 12:35pm

Carolyn Seto, Director, Upstream Technology and Innovation, IHS Markit
 Colette Cohen, Chief Executive Officer, The Oil and Gas Technology Centre
 Craig Hayman, Chief Executive Officer, AVEVA

Hussein Shel, Azure Global, Principal Program Manager, Microsoft
 Patrick Stanley, Data Analytics and Integrated Planning Leader, ConocoPhillips
 Kentaro Kawamori, VP, Chief Digital Officer, Chesapeake Energy Corporation

11:35am - 12:35pm
Strategic Dialogues (view more +)
Cars and Oil: Reshaping demand 11:35am - 12:35pm

Daniel Evans, Vice President, Global Refining and Marketing Research, IHS Markit
 Ayed S. Al-Qahtani, Director of Research Division, Organization of the Petroleum Exporting Countries (OPEC)
 B. Anand, Chief Executive Officer, Nayara Energy
 Liu ChaoQuan, Vice President, CNPC Economics and Technology Research Institute
 Marianne Kah, Adjunct Senior Research Scholar and Advisory Board Member, Columbia University Center on Global Energy Policy

Company Strategies for the Energy Transition 11:35am - 12:35pm

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Felipe Bayón, Chief Executive Officer, Ecopetrol S.A.
 Tomás García, Executive Managing Director of Exploration and Production, Repsol
 Anuar Taib, Executive Vice President and CEO Upstream, PETRONAS

Eurasian Upstream and the New World Oil Order 11:35am - 12:35pm

Matthew Sagers, Executive Director, Energy, IHS Markit
 Iskaziye Kurmangazy Oryngazyevich, Deputy Chairman of the Management Board for Geology and Exploration, JSC "National Company "KazMunayGas"
 Philip Vorobyov, Senior Associate, Brussels Energy Club
 Kuanysh Kudaibergenov, Director, Oil Industry Development Department, Ministry of Energy, Republic of Kazakhstan

Global Hot Spots and Policy Challenges 11:35am - 12:35pm

Carlos Pascual, Senior Vice President, IHS Markit
 Dan Dornier, Head of BEIS-FCO International Energy Unit, Department for Business, Energy and Industrial Strategy, Oil and Gas Council
 Francis R. Fannon, Assistant Secretary for the Bureau of Energy Resources (ENR), US Department of State
 Karen Harbert, President and Chief Executive Officer, Global Energy Institute, US Chamber of Commerce
 Elizabeth Rosenberg, Sr. Fellow and Program Director, Center for a New American Security (CNAS)

Global Upstream Strategies: Diversification versus specialization 11:35am - 12:35pm

Paul Markwell, Vice President, Global Upstream Oil and Gas Insight, IHS Markit
 Gordon Birrell, Chief Operating Officer, Production, Transformation and Carbon, BP
 Katie Jackson, Executive Vice President, Global Strategy and Business Development, Shell
 Maria Moræus Hanssen, Chief Executive Officer, DEA Deutsche Erdoel AG
 Geraldine Slattery, President Operations Petroleum, BHP

Oil Markets: Riding the wild roller coaster 11:35am - 12:35pm

James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit
 Helen Currie, Chief Economist, ConocoPhillips
 Spencer Dale, Group Chief Economist, BP p.l.c.
 Ben Luckcock, Co-Head of Oil Trading, Trafigura Pte Ltd
 Adam Sieminski, President, King Abdullah Petroleum Studies and Research Center
 Hon. Linda Capuano, Ph.D., Administrator, U.S. Energy Information Administration

Retail Fuels Marketing: Back in fashion 11:35am - 12:35pm

Denton Cinquegrana, Chief Oil Analyst, OPIS, IHS Markit
 Bob Espey, President and Chief Executive Officer, Parkland Fuel Corporation
 Alex Jensen, SVP Global Retail, BP
 Jeff Kramer, Managing Director, NRC Realty
 Rob Smith, Director, Refining and Marketing, IHS Markit

Returns versus Growth: Finance and the challenge for US shale 11:35am - 12:35pm

Roger Diwan, Vice President, Financial Services, IHS Markit
 Osmar Abib, Jr., Chairman of Global Energy, Credit Suisse
 David Foley, Sr. Managing Director and Chief Executive Officer, Blackstone Energy Partners
 Steve Pattyn, Managing Partner, Yaupon Capital Management
 Matt Portillo, Managing Director, E and P Equity Research, Tudor, Pickering, Holt and Co.
 Nate Walton, Partner, Co-Head of North American Private Equity, Ares

Sustainability in the Oil and Gas Industry 11:35am - 12:35pm

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit
 Mark Brownstein, Senior Vice President, Energy, Environmental Defense Fund
 Ted Halstead, Chairman and CEO, Climate Leadership Council
 Mike Sommers, President and CEO, American Petroleum Institute (API)
 Bjørn Otto Sverdrup, Senior Vice President, Sustainability, Equinor
 Dr. V.P. Joy, Director General, Directorate General of Hydrocarbons

The Growing North American Resource Base: How high and how long? 11:35am - 12:35pm

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit
 Mark G. Papa, Chairman and Chief Executive Officer, Centennial Resource Development, Inc.
 Timothy E. Perry, Global Co-Head of Oil and Gas Investment Banking, Credit Suisse
 Brian Falik, Chief Investment Officer, Mercuria Energy Trading
 Greg Powers, Vice President of Innovation, Halliburton

The IMO Scramble: How big a disruption? 11:35am - 12:35pm

Sandeep Sayal, Vice President, Downstream Energy Research, IHS Markit
 Nick Confuorto, President and Chief Operating Officer, CR Ocean Engineering
 Savvas Manousos, Global Head of Trading, Maersk Oil Trading and Investments
 Luca Volta, Marine Fuels Venture Manager, ExxonMobil
 Horace Hobbs, Chief Economist, Philipps 66
 Peter Tirschwell, VP, Editorial and Publishing, IHS Markit

12:45pm - 02:00pm
Luncheon and Dialogue: New world of rivalries

Carlos Pascual, Senior Vice President, IHS Markit
 Daniel Yergin, Vice Chairman, IHS Markit
 Joe Kaeser, President and Chief Executive Officer, Siemens AG

12:45pm - 01:30pm
What's New at Rice: A conversation

Rice University started its second century as a leading research and education institution. School leaders will share insights on the research agenda ahead, from the future of the workforce to creating and sustaining an innovation ecosystem, ensuring data integrity and privacy in the age of dark web and cyber espionage and more.

Reginald DesRoches, Dean, George R. Brown School of Engineering, Rice University
 Dr. Antonio Merlo, George A. Peterkin Professor of Economics and Dean of the School of Social Sciences, Rice University
 Peter Rossky, Dean, Wiess School of Natural Sciences, Rice University
 Kenneth B. Medlock, Senior Director, Center for Energy Studies, Baker Institute for Public Policy

12:45pm - 01:30pm
Voices of Innovation with Andy Karsner: Disrupting the global energy system

Thought leader and leading expert on technology innovation, Andy Karsner talks about how entrepreneurs are transforming the global energy system and how he would design a sustainable energy system. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Andy Karsner, Managing Partner, Emerson Collective

02:00pm - 05:50pm
Lyceum Labs: Afternoon Labs
C-Suite: What should you be asking about data science? 02:00pm - 02:50pm
Shale Performance: A Look Under the Hood 03:00pm - 03:50pm

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit

Crude Oil Quality Trends: Too light and too sweet? 03:00pm - 03:50pm

Ha Nguyen, Director Oil Markets Research, IHS Markit
 Premasish Das, Senior Director, Energy, IHS Markit
 Stephen Jew, Associate Director, Energy Downstream Research and Consulting group, IHS Markit

China's Future Gas Supply: Competition for a growing market 04:00pm - 04:50pm

Xizhou Zhou, Managing Director, IHS Markit
 Anna Galtsova, Research and Analysis Associate Director, IHS Markit
 Jenny Yang, Director, China Power, Gas, Coal and Renewables, IHS Markit

Future Transit of Russian Gas Through Ukraine: To the brink—and beyond? 04:00pm - 04:50pm

Philippe Frangules, Vice President, Energy, IHS Markit
 Laurent Ruseckas, Executive Director, Gas Power and Renewables, EMEA, IHS Markit

Decarbonization of Liquid Fuel: Are the programs working? 05:00pm - 05:50pm

Blake Eskew, Vice President, Oil Markets, Midstream, Downstream and Chemicals, IHS
 Denton Cinquegrana, Chief Oil Analyst, OPIS, IHS Markit
 Kevin Lindemer, Managing Director, Downstream Consulting, Energy, IHS Markit
 Steven Knell, Director, Energy Wide Perspectives, IHS Markit

The Future of Exploration and Whole Basin Strategies 05:00pm - 05:50pm

Gerald Kepes, Executive Director, Plays and Basins, Upstream Oil and Gas Insight, IHS Markit
 Keith King, Senior Advisor, North America Plays and Basins, IHS Markit
 Kareemah Mohamed, Principal Research Analyst, IHS Markit

02:15pm - 02:40pm
The Future of Mobility: A regulatory perspective

Daniel Yergin, Vice Chairman, IHS Markit
 Derek Kan, Under Secretary of Transportation for Policy, United States Department of Transportation

02:40pm - 03:05pm
The Future of Mobility: An industry perspective

Daniel Yergin, Vice Chairman, IHS Markit

Ulrich Spiesshofer, President and Chief Executive Officer, ABB Ltd.

02:45pm - 03:30pm

Voices of Innovation with Michael Chasen: Drones, Disruption, and Energy

Pioneering entrepreneur Michael Chasen describes his vision around smart drones and on-demand aerial intelligence, utilizing AI and sophisticated geospatial capabilities, will provide unexpected benefits. Michael will share his insights on innovation as a serial successful entrepreneur, including his prior role as co-founder and CEO of Blackboard, an early leader in global eLearning.

02:45pm - 03:45pm

Agora Studios

Digital Ledgers: Oil and gas supply chain 02:45pm - 03:45pm

Tomicah Tillemann, Chairman, Global Blockchain Business Council
 Andrew Bruce, Chief Executive Officer, Data Gumbo
 Rebecca Hofmann, US Blockchain Strategy and Innovation, Equinor US
 John Kingston, FreightWaves Editor at Large; Community Engagement, Blockchain in Transport Alliance, FreightWaves
 Manas Satapathy, Managing Director – Accenture Strategy, Energy, Accenture

Models of Innovation: Today and tomorrow 02:45pm - 03:45pm

Nick Lowes, Vice President, Oil and Gas Consulting, Energy, IHS Markit
 Barbara Burger, President, Technology Ventures, Chevron
 Nicoletta Giadrossi, Member of the Board, IHS Markit
 John Gibson, Senior Advisor, Tudor Pickering Holt and Co.
 Amit Mehta, Chief Executive, Mobilize
 Reed Sturtevant, General Partner, The Engine

03:15pm - 04:00pm

Downstream: Competing through the cycles

The downstream business of refining crude oil and marketing products to end-users has long been a valuable, if occasionally out of fashion, part of the oil company portfolio. Today, the downstream business is attractive to a range of different types of owners. These companies seek out downstream profits from processing new low-cost crude oils, capturing product growth in emerging markets, and integrating further into petrochemical. Still, there is the ever-present concern that increasingly stringent policies aimed at decarbonization and local air quality will affect the downstream pillar of the oil business.

Kurt Barrow, Vice President, Oil Markets, Midstream and Downstream Insights, IHS Markit
 Tufan Erginbilgic, Chief Executive, Downstream, BP p.l.c.
 Arif Mahmood, Executive Vice President and CEO Downstream, PETRONAS
 Sanjiv Singh, Chairman, Indian Oil Corporation Ltd. (IOCL)

03:15pm - 04:00pm

Future of the Global Upstream

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 AI Cook, EVP, Global Strategy and Business Development (GSB), Equinor ASA
 Daniel González, Chief Executive Officer, YPF
 Gretchen Watkins, President, Shell Oil Company, Executive Vice President, Shell Upstream Unconventionals, Shell Oil Company
 Matt Fox, Executive Vice President and Chief Operating Officer, ConocoPhillips

04:00pm - 04:45pm

Voices of Innovation: H.E. Suhail Al-Mazrouei

Get personal insights into UAE's journey from a nation rich in oil resources to one that will lead The Middle East into the next technological revolution. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

H.E. Suhail Mohamed Al Mazrouei, Minister of Energy and Industry, United Arab Emirates
 Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

04:00pm - 05:00pm

Agora Studios

EV Battery Supply Chain: Scale, geography and recycling 04:00pm - 05:00pm

Henning Wicht, Executive Director Consulting, IHS Markit
 Morgan D. Bazilian, Ph.D., Director, Payne Institute and Professor of Public Policy, Colorado School of Mines
 Jonas Moberg, Global Head of Corporate Affairs, Trafigura
 Martín Pérez de Solay, CEO and Managing Director, Orocobre Limited
 Paul K. Kearns, Laboratory Director, Argonne National Laboratory

Transforming the Upstream Business through Digital Twins 04:00pm - 05:00pm

Oscar Abbink, Director Upstream Research Group, IHS Markit
 Jim Claunch, Vice President, Business Efficiency, Equinor
 John Markus Lervik, Co-Founder and Chief Executive Officer, Cognite AS

Amish Sabharwal, Global Head of Engineering Business, Aveva
 Indy Chakrabarti, Senior Vice President, Strategy and Marketing, Emerson
 Adeeb Gharzouzi, Managing Director – Accenture Strategy, Energy, Accenture

Voices of Innovation 04:00pm - 05:00pm

04:10pm - 04:55pm

Global Oil Ministerial Dialogue

Policy decisions on oil and gas supply and energy diversification are reshaping oil and gas markets. How are these decisions affecting the price environment, investment incentives, international partnerships, and the pace of innovation and diversification?

Carlos Pascual, Senior Vice President, IHS Markit
 Hon. Kanat Bozumbayev, Minister of Energy, Republic of Kazakhstan
 Dr. M. M. Kutty, Secretary, Ministry of Petroleum and Natural Gas, Government of India
 Secretary Gustavo Lopetegui, Secretary of Energy, Ministry of Finance, Argentina
 Luis Miguel Morelli, President, National Hydrocarbon Agency

04:10pm - 04:55pm

North American Shale: Taking on the world

Shale oil and gas is arguably a “disruptive technology” transforming the oil and gas world, even though it still represents a small slice of the industry. What do companies see in the shale resource? How will shale interact with the global opportunity set? What will it take to deliver success?

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit
 Mark Gunnin, President, Hunt Oil Company
 Doug Suttles, President and CEO, Encana
 Lee Tillman, President and CEO, Marathon Oil Corporation
 Corey Prologo, Director, North American Oil Trading, Trafigura Trading LLC

05:00pm - 06:00pm

Special Dialogue on Venezuela

Chair: Carlos Pascual, Senior Vice President, IHS Markit **Part I: Interim Government Vision for Venezuela**

-**Ambassador Carlos Vecchio**, Ambassador of the Government of Venezuela to the United States

-**Ricardo Hausmann**, Director of Harvard's Center for International Development, Harvard Kennedy School, Professor of the Practice of Economic Development

Part II: Industry and Investment Perspectives

-**Luisa Palacios**, Chairwoman, CITGO Petroleum Corporation

-**Maynard Holt**, Chief Executive Officer, Tudor, Pickering, Holt and Co.

-**Ashok Belani**, Executive Vice President of Technology, Schlumberger Limited

Ambassador Carlos Vecchio, Ambassador, Ambassador Carlos Vecchio
 Ricardo Hausmann, Director of Harvard's Center for International Development, Harvard Kennedy School, Professor of the Practice of Economic Development
 Luisa Palacios, Chairwoman, CITGO Petroleum Corporation
 Maynard Holt, Chief Executive Officer, Tudor, Pickering, Holt and Co.
 Ashok Belani, Executive Vice President of Technology, Schlumberger Limited
 Carlos Pascual, Senior Vice President, IHS Markit

05:00pm - 05:45pm

Agora Studios

Industrial Energy Efficiencies: The path to decarbonization 05:00pm - 05:45pm

Catherine Robinson, Executive Director, IHS Markit
 Dr. Pratima Rangarajan, Chief Executive Officer, OGCI Climate Investments
 Paolo Bertuzzi, Chief Executive Officer, Turboden - MHI Group
 Peter Zornio, Chief Technology Officer, Emerson
 Christopher Knittel, George P. Shultz Professor of Applied Economics, MIT

Trading and Risk Management: Blockchain and beyond 05:00pm - 05:45pm

Brad Levy, Senior Vice President, Global Head of Loans at IHS Markit and Chief Executive Officer of MarkitSERV, IHS Markit
 Rana Basu, Chief Operating Officer, Ondiflo
 Dan Berkovitz, Commissioner, U.S. Commodity Futures Trading Commission (CFTC)
 Alistair Cross, Chief Operations Officer, Mercuria Energy Group
 Lyon Hardgrave, Vice President, Business and Product Development, VAKT Global Ltd.

05:05pm - 05:45pm

Game-changing Technologies for Oil and Gas

The oil and gas industry is witnessing a new era of progress in digital and related technologies that are transforming operational performance and efficiency and creating renewed opportunity to secure sustainable growth. The industry has a history of developing technical and operational innovations that have forged game-changing growth into new segments such as deep water and shale. This panel will explore the prospects for the next game-changers and what they might look like. Which areas of technological progress offer the most promise to become game-changers for the industry? What form of impact might a game-changer have, for example, in unlocking resources, reducing costs, or changing the nature of work? Would we know a game-changer if we saw one? Could a series of incremental gains over time also constitute a game-changer? Is the industry structured to unlock innovations? Which types of players and partnerships would hold the key?

Paul Markwell, Vice President, Global Upstream Oil and Gas Insight, IHS Markit

Peter Herweck, EVP, Industrial Automation, Schneider Electric

Dr. Vijay Swarup, Vice President of Research and Development, ExxonMobil Research and Engineering Company

Darryl Willis, VP Energy, Google Cloud

John Gibson, Senior Advisor, Tudor Pickering Holt and Co.

06:00pm - 06:30pm

CERAWeek Special Keynote Address

Daniel Yergin, Vice Chairman, IHS Markit

Michael R. Pompeo, Secretary of State, United States of America

06:30pm - 07:30pm

Conference-wide Reception

06:30pm - 07:30pm

Innovation Agora Reception and Open House

An opportunity for the community to visit the Agora with hors d'oeuvres served in the Agora Houses.

07:30pm - 09:00pm

Dinner and Dialogue

Daniel Yergin, Vice Chairman, IHS Markit

Bob Dudley, Group Chief Executive, BP plc

Wednesday March, 13

07:30am - 08:35am

Strategic Dialogues (Breakfast) (view more +)

CCUS for EOR: What is the potential? [07:30am - 08:35am](#)

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

Prof. Dr. Nasir Darman, Chief Technology Officer, PETRONAS

Charlene Russell, Vice President Low Carbon Strategies, Occidental Petroleum

Yoshiaki Ueda, Chief Technical Officer, JX Nippon Oil and Gas Exploration Corporation

Steven Winberg, Assistant Secretary Fossil Energy, United States Department of Energy

European Gas: Competition for markets [07:30am - 08:35am](#)

Laurent Ruseckas, Executive Director, Gas Power and Renewables, EMEA, IHS Markit

Paul Corcoran, Chief Financial Officer, Nord Stream 2 AG

Thomas Earl, Chief Commercial Officer, Venture Global Marketing LLC

Paula Pinho, Head, Energy Policy Coordination Unit, European Commission

Jan Willem van Hoogstraten, Chief Executive Officer, EBN B.V.

LNG: Reaching project sanction through cost management and innovation [07:30am - 08:35am](#)

Robert Ineson, Managing Director, Energy, IHS Markit

Hiroaki Osaki, President, Oil and Gas Division, Mitsubishi Heavy Industries America (MHIA)

Iain Ross, Chief Executive Officer, Golar LNG Limited

Andrew Walker, Vice President, LNG Strategy and Communications, Cheniere Energy

Marcos Browne, Executive Vice President Gas and Power, YPF

North America Unconventionals: New value equation [07:30am - 08:35am](#)

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit

Bob Edwards, Partner, NGP

Bob Gwin, President, Anadarko Petroleum Corporation

Bobby Tudor, Chairman, Tudor Pickering Holt and Co.

Tarigh Yusufi, Financial Analyst, Steadfast Capital Management

North American Gas Market: Prospects for 2019 [07:30am - 08:35am](#)

Samuel Andrus, Executive Director, Energy, IHS Markit
 Corey Grindal, Senior Vice President, Gas Supply, Cheniere Energy
 Blue Jenkins, EVP, Commercial, Business Development, Information Technology and Safety, EQT Corporation
 John Schultz, President, Centrica North America and Direct Energy Business, Centrica
 Kenneth B. Medlock, Senior Director, Center for Energy Studies, Baker Institute for Public Policy

Renewables and Gas Integration: Is there an efficient frontier? 07:30am - 08:35am

Timothy Gardner, Vice President, Power and Gas Consulting, IHS Markit
 Joe M. Kang, President, International Gas Union (IGU)
 Claudia Squeglia, Vice President, Positioning Strategies and Legislative Analysis, ENI
 Robert Yeager, President, Power and Water Solutions, Emerson
 Sonny Garg, Global Lead, Energy Solutions, Uptake Technologies

South American Gas in Search of Demand 07:30am - 08:35am

Roberto Ferreira da Cunha, Associate Director, Latin America Gas and Power, Energy, IHS Markit
 R. Blair Thomas, Chairman and CEO, EIG Global Energy Partners
 Márcio Félix, Secretary of Oil, Gas and Biofuels, Ministry of Mines and Energy, Brazil
 Aldo Flores-Quiroga, Independent Consultant,
 Francisco Lloreda, President, ACP Colombia

The Rise of Low Carbon Intensity Biofuels? 07:30am - 08:35am

Kevin Lindemer, Managing Director, Downstream Consulting, Energy, IHS Markit
 Dan Szeezil, Lead Sales Specialist at Envergent Technologies, Honeywell UOP
 Lisa Hanke, Director, Government Affairs, Enerkem
 Cynthia (CJ) Warner, President and CEO, Renewable Energy Group (REG)

Special Breakfast: The U.S. Administration's Policy Goals in Iran 07:30am - 08:35am

Carlos Pascual, Senior Vice President, IHS Markit
 Brian Hook, Special Representative for Iran and Senior Policy Advisor to the Secretary of State, United States Department of State

Domestic Gas Pricing in Asia: How to accommodate new supply? 07:30am - 08:35am

Jenny Yang, Director, China Power, Gas, Coal and Renewables, IHS Markit
 Gang Chen, Chairman and CEO Assistant, Shanghai Petroleum and Natural Gas Exchange
 Kunio Nohata, Member of the Board and Senior Executive Officer, Tokyo Gas
 Prabhat Singh, Managing Director and Chief Executive Officer, Petronet LNG Ltd.
 Parulian Sihotang, Deputy of Finance and Monetization, SKK Migas

07:30am - 08:30am

Voices of Innovation with Lord John Browne and Lance Uggla: The story of the glass closet

Come hear this visionary industrialist talk about his personal story of coming out of the closet -- and how it changed his life and career. Interviewed by Interviewed by Lance Uggla, Chairman and CEO, IHS Markit.

Lord Browne, Executive Chairman, L1 Energy
 Lance Uggla, Chairman of the Board and Chief Executive Officer, IHS Markit

07:30am - 08:30am

Agora Studios

Energy Innovation Pioneers: Reshaping Upstream Oil and Gas 07:30am - 08:30am

Carolyn Seto, Director, Upstream Technology and Innovation, IHS Markit
 Stephane Germain, President and CEO, GHGSat
 Matt Ondler, President / CEO, Houston Mechatronics
 Matt Thomas, Chief Executive Officer, JP3
 John van Pol, Chief Executive Officer and Co-Founder, Ingu Solutions

Portfolio Strategies for Energy Transition 07:30am - 08:30am

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit

07:30am - 08:30am

Arab Energy Innovation

Mohsen Almajnoui, Chief Executive Officer, Research Products Development Company (RPDC)
 Enass Abo-Hamed, Chief Executive Officer, H2GO Power
 Khalil El Shafei, Chief Executive Officer, Aramco Entrepreneurship Center: Wa'ed
 Paddy Padmanathan, Chief Executive Officer and President, ACWA Power International
 Dr. Emily Reichert, Chief Executive Officer, Greentown Labs

08:30am - 11:50am

Lyceum Labs: Morning Labs

New Mobility: Reshaping the City of the Future - an interactive workshop 08:30am - 10:00am

Katherine Hardin, Vice President, IHS Markit
 Tom De Vleeschauwer, Vice President, Automotive, IHS Markit

Satellite Imagery Exploitation 09:00am - 09:50am

What's right and wrong with CCS: a political and economic perspective 09:00am - 09:50am

David Victor, Co-Director, Deep Decarbonization Initiative, University of San Diego
Ahmed Abdulla, Research Scientist, University of California, San Diego

Key Transformations Driving Development of Cybersecurity Technology 10:00am - 10:50am

Jeff Wilson, Research Director and Advisor, Cybersecurity Technology, IHS Markit

EV Charging Primer 10:00am - 10:50am

Heather Flanagan, Marketing Manager, EV Infrastructure, ABB
Erin Galiger, EV Infrastructure Product Manager, ABB

Robotics in the cloud: The autonomous future of oil and gas 11:00am - 11:50am

Roger Barga, General Manager, Robotics and Autonomous Services, Amazon Web Services

Shale Growth Drivers and Limits 11:00am - 11:50am

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit

08:30am - 09:15am

Book Signing with Lord John Browne

Join Lord John Browne to receive a signed copy of his book, *The Glass Closet: Why Coming Out Is Good Business*.

Lord Browne, Executive Chairman, L1 Energy

08:40am - 09:20am

The Energy Company of the Future

Energy companies are looking to reinvent themselves to take advantage of fast-changing technologies and the shift toward more clean energy. Innovations offer the prospect to increase the productivity of existing oil, gas, and power activities, and to reduce their environmental impact. New opportunities are emerging more widely across the clean tech space whether in the production and transportation of energy or in the way companies interact with the consumer.

Michael Stoppard, Chief Strategist, Global Gas, Energy; CERAWEEK Vice Chairman, IHS Markit
Iain Conn, Chief Executive Officer, Centrica
Josu Jon Imaz, Chief Executive Officer, Repsol S.A.
Tan Sri Wan Zulkiflee Wan Arrifin, President and Group Chief Executive Officer, PETRONAS

09:00am - 12:00pm

Agora Pods: Morning Sessions

Early detection of methane and GHG emissions 09:00am - 09:30am

Robert Kester, Chief Executive Officer and Co-Founder, Rebellion Photonics

Projecting Energy and Climate for the 21st Century 09:00am - 09:30am

Sergey Paltsev, Deputy Director, MIT Joint Program on the Science and Policy of Global Change, MIT

Accelerating the growth of the PV industry through wafer production efficiency 09:00am - 09:30am

Perovskite PV Solar Cell Development 09:30am - 10:00am

A New Reality: Augmented, Virtual and Mixed Reality for Energy Applications 09:30am - 10:00am

Ben Bishop, Digital Innovation Specialist, Siemens

Satellite-based greenhouse and air quality monitoring 10:00am - 10:30am

Stephane Germain, President and CEO, GHGSat

System Value of Energy Storage in Low Carbon Grids 10:00am - 10:30am

Dharik Mallapragada, Postdoctoral Associate, MIT Energy Initiative

Long Range Electric Trucks. The cheapest and greenest solution is not enormous batteries and chargers. 10:00am - 10:30am

Asher Bennett, Founder and CEO, Tevva Electric Trucks

Houston's Technology Ecosystem: An update on Station Houston 10:00am - 10:30am

Gabriella Rowe, Chief Executive Officer, Station Houston

Real-time, in-line hydrocarbon analysis for process control and custody transfer 10:30am - 11:00am

Matt Thomas, Chief Executive Officer, JP3

How Being Customer-Centric Is Disrupting Utilities 10:30am - 11:00am

H. Cody Girod, Principal Solution Engineer, Salesforce

Building a CO2 Marketplace at Gigaton Scale 10:30am - 11:00am

Claude Letourneau, President and CEO, Inventys

Electric vehicles in China: Road to where? 11:00am - 11:30am

Valerie Karplus, Assistant Professor, Global Economics and Management Group, Sloan School of Management, MIT

In-line sensors for pipeline inspection 11:30am - 12:00pm

John van Pol, Chief Executive Officer and Co-Founder, Ingu Solutions

Technology Offerings Toward Decarbonization 11:30am - 12:00pm

Dr. SSV Ramakumar, Director of Research and Development, Indian Oil Corporation

Clarke Valve, an OGCI portfolio company 11:30am - 12:00pm

Kyle Daniels, Director, President and CEO, Clarke Valve

09:00am - 10:00am

Agora Studios

EV Charging: Business Models and Players of the Future 09:00am - 10:00am

Egil Juliussen, Research and Analysis Director, R and A, IHS Markit
 Michael Ableson, Vice President, Electric Vehicle Charging and Infrastructure, General Motors Corporation
 Sergej Mahnovski, Director, Growth and Innovation, Edison International
 Cathy Zoi, Chief Executive Officer, EVgo
 Jordan Ramer, Chief Executive Officer, EV Connect
 Bob Stojanovic, EV Charging Infrastructure North America, ABB

Life on the Edge: The Next Computing Revolution 09:00am - 10:00am

Cliff Grossner, Senior Research Director, IHS Markit
 Sujit Kumar, President, Agora, Schlumberger Limited
 Casey Coleman, Senior Vice President of Global Government Solutions, Salesforce

09:00am - 09:45am

Voices of Innovation with Lal Karsanbhai: Making digital transformation real

How will digital technologies shape the future? Lal Karsanbhai talks about how Emerson places itself in a global context, and why they have chosen to focus on energy as one of its strategic priorities. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Lal Karsanbhai, Executive President, Automation Solutions, Emerson

09:20am - 10:00am

Eastern Mediterranean Gas Renaissance

Offshore gas discoveries in Cyprus, Egypt, and Israel are transforming perspectives for the Eastern Mediterranean. What are the export options, whether by pipeline or LNG? What role will the Eastern Mediterranean come to play in the new global gas map?

Michael Stoppard, Chief Strategist, Global Gas, Energy; CERAWEEK Vice Chairman, IHS Markit
 H.E. Eng. Tarek El Molla, Minister of Petroleum and Mineral Resources, Egypt
 Yiorgos Lakkotrypis, Minister of Energy, Commerce and Industry, Republic of Cyprus
 HE Minister George Stathakis, Minister of Environment and Energy, Greece
 HE Dr. Yuval Steinitz, Minister of Energy, Israel

10:00am - 10:40am

Global Gas Innovators

The next generation of gas projects are harnessing both technological and commercial innovation. Technology advances and new procurement practices are helping to keep costs competitive. Business models are emerging to meet changing buyer and investor requirements.

Shankari Srinivasan, Vice President, Energy, IHS Markit
 Mark Gyetvay, Chief Financial Officer and Deputy Chairman of the Management Board, PAO NOVATEK
 Charif Souki, Chairman of the Board, Tellurian
 Lorenzo Simonelli, Chairman and CEO, Baker Hughes, a GE company (BHGE)

10:30am - 11:15am

Agora Studios

Decarbonization of Power: Which Technologies Will Make a Difference? 10:30am - 11:15am

Philippe Frangules, Vice President, Energy, IHS Markit
 Katherine Hamilton, Chair, 38 North Solutions
 Fatima Al Shamsi, Assistant Undersecretary for Electricity and Future Energy, United Arab Emirates Ministry of Energy and Industry
 Charles Cameron, Director of Technology, Engineering and Centrica Innovations, Centrica
 Agustín Delgado Martín, Chief Innovation and Sustainability Officer, Iberdrola

The Future of Ride-hailing and Mobility as a Service 10:30am - 11:15am

Tom De Vleeschauwer, Vice President, Automotive, IHS Markit
 Johann Jungwirth, Executive Vice President of Mobility Services, Volkswagen Group of America
 Kristopher Luey, Client Success Manager, Vulog
 Jeff Meyer, Director, Mobility and Energy, IHS Markit
 Aric Ohana, Co-Founder, Envoy There

10:30am - 11:15am

Voices of Innovation with Ray and Hunter Hunt with Dan Yergin: A father and son dialogue

Daniel Yergin, Vice Chairman, IHS Markit
Hunter Hunt, Chief Executive Officer, Hunt Consolidated, Inc.
Ray Hunt, Executive Chairman, Hunt Consolidated, Inc.

10:40am - 11:20am

Future of Global Gas

New developers and a changing profile among buyers are changing the global gas industry. On the supply side, US LNG exports are set to have a transformative impact on global trading patterns. On the demand side, buyers are looking for more flexible supply and opportunities for new applications.

Simon Blakey, Advisor, Global Gas, IHS Markit
Robert Pender, Co-CEO, Co-Chairman and Founder, Venture Global LNG
Michael Smith, Chairman, CEO and Founder, Freeport LNG
Shri B. C. Tripathi, Chairman and Managing Director, GAIL India Limited

11:30am - 12:30pm

Strategic Dialogues (view more +)**Developing Gas-to-Power and the LNG Value Chain in Asia** 11:30am - 12:30pm

Xizhou Zhou, Managing Director, IHS Markit
Danielle Guccione, Global Director, Business Development, LNG, Siemens
Seng Wai Lee, Director, Policy and Planning Department, EMA
Didik Sasongko Widi, President Director and CEO, PT Badak NGL
Gaku Takagi, Senior Vice President, Value Chain Business Development, JERA Co.
Zhi Xin Chong, Associate Director, IHS Markit

Development in the Arctic: Opportunities and challenges 11:30am - 12:30pm

Gautam Sudhakar, Senior Director, Global LNG, IHS Markit
Dan Domeracki, Vice President, Government and Industry Relations, Schlumberger Limited
Sergey Vakulenko, Head of Strategy and Innovations, Gazprom Neft PJSC
Mark Gyetvay, Chief Financial Officer and Deputy Chairman of the Management Board, PAO NOVATEK
Nina Koch, Vice President Operation Canada, Equinor

The Future of EV Adoption, Investment and Innovation 11:30am - 12:30pm

James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit
Adam Jonas, Managing Director, Morgan Stanley
Asaf Nagler, Senior Director, Government Relations, ABB
Cathy Zoi, Chief Executive Officer, EVgo
Daniel Simmons, Assistant Secretary, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Global LNG: Seeking producer and buyer alignment 11:30am - 12:30pm

Terrell Benke, Executive Director, Global Gas and LNG Group, Energy, IHS Markit
Jane Liao, Chief Executive Officer, CPC Corporation, Taiwan
Michael Sabel, Co-Chief Executive Officer, Co-Chairman and Founder, Venture Global LNG
Hiroki Sato, Senior Executive Vice President, Chief LNG Transaction Officer, JERA Co.
Alessandro Della Zoppa, Executive Vice President LNG, Eni

How Will LNG Infrastructure Be Financed? 11:30am - 12:30pm

Andy Barrett, Senior Advisor, Global Gas and Power, Energy, IHS Markit
Salim G. Samaha, Partner, Global Infrastructure Partners
Roberto Simon, Managing Director, Head of Natural Resources and Infrastructure, Americas, Société Générale
Lisa Cohen, VP of Finance and Treasurer, Cheniere Energy
Alok Sinha, Managing Director and Global Head of Oil and Gas, Global Industries Group, Standard Chartered Bank

New Applications for Gas: Marine and road transport 11:30am - 12:30pm

Andres Rojas, Research and Analysis Associate Director, IHS Markit
Stephen Cadden, Chief Operating Officer, SEA-LNG
Dick Brown, Chief Executive Officer, Eagle LNG Partners
Zackarie Fortin-Brazeau, Business Development Manager, Avenir LNG
Thomas Hardy, Director (Acting), United States Trade and Development Agency

North American Gas Infrastructure: Keeping pace with gas production in the Permian? 11:30am - 12:30pm

Matthew Palmer, Research and Analysis Manager, Global Gas, IHS Markit
Cynthia Walker, Senior Vice President, Marketing and Midstream, Occidental Petroleum Corporation
Dave Tredinnick, Group President, Flow Solutions, Emerson
Tom Martin, President Natural Gas Pipelines Group, Kinder Morgan
Matt Schatzman, President and Chief Executive Officer, NextDecade Corporation

The Role of Hydrogen in the Energy Transition 11:30am - 12:30pm

Shankari Srinivasan, Vice President, Energy, IHS Markit
Simon Blakey, Advisor, Global Gas, IHS Markit
Bill Elrick, Executive Director, CaFCP
Yuri Freedman, Senior Director of Business Development, Southern California Gas Company
Sam French, Business Development Manager, Johnson Matthey

The New Energy Transition: Opportunities in clean tech? 11:30am - 12:30pm

Edurne Zoco, Research and Analysis Director, Solar and Energy Storage, Energy Technology, IHS Markit
 Mohamed Firouz, Senior Vice President, Corporate Strategy, PETRONAS
 Bashir Dabbousi, Director, Technology Strategy and Planning, Saudi Aramco
 Andrew (Drew) Murphy, Senior Vice President, Strategy and Corporate Development, Edison International
 Eirik Wærness, Senior Vice President and Chief Economist, and Head of Strategy MMP, Equinor

Changing World of LNG Trading and Marketing 11:30am - 12:30pm

Leigh Thomas, Director, LNG and Gas, IHS Markit
 Andree Stracke, Chief Commercial Officer (Origination), RWE Supply and Trading GmbH
 Jonathan Westby, Co-Managing Director EM and T and Global Head of LNG, Centrica
 Rajeev Kumar Mathur, Executive Director, Corporate Affairs, Risk Management and OSD to CMD, GAIL India Limited
 Fatema Al Nuaimi, Acting Chief Executive Officer, ADNOC LNG, Abu Dhabi National Oil Company
 Laurent Vivier, President, Gas, TOTAL S.A.

India's Energy Security: Choices in affordability and sustainability 11:30am - 12:30pm

Gauri Jauhar, Executive Director, Integrated Solutions, Energy Wide Perspectives, IHS Markit
 Dr. M. M. Kutty, Secretary, Ministry of Petroleum and Natural Gas, Government of India
 Mike Train, President, Emerson; Chairman, Automation Solutions, Emerson
 Kartikeya Singh, Deputy Director and Senior Fellow, Energy and National Security Program, Center for Strategic and International Studies
 Sanjiv Singh, Chairman, Indian Oil Corporation Ltd. (IOCL)

11:30am - 12:00pm

Special Address: Collaboration for Energy Innovation: The case for Denmark's green transition

James Rosenfield, Senior Vice President IHS Markit, CERAWEEK Co-Chairman, IHS Markit
 Her Royal Highness Crown Princess Mary Elizabeth of Denmark, ,
 Thomas Brostrøm, President, Ørsted North America
 Chris Brown, President, North America, Vestas

11:30am - 12:30pm

Agora Studios

Storm over Plastics: Innovative technology solutions 11:30am - 12:30pm

Dewey Johnson, VP, Research and Analysis, Chemical, IHS Markit
 B. Ashok, Chief Executive Officer, Ratnagiri Refinery and Petrochemicals Limited
 Mircea Dinc, Associate Professor of Chemistry, MIT
 Scott M. Gallager, Associate Scientist, Woods Hole Oceanographic Institution
 Rachel A. Meidl, Fellow in Energy and Environment, Rice University, Baker Institute

Planes, Trucks and Ships: Reinventing transportation 11:30am - 12:30pm

Daniel Evans, Vice President, Global Refining and Marketing Research, IHS Markit
 Erin Galiger, EV Infrastructure Product Manager, ABB
 Asher Bennett, Founder and CEO, Tevva Electric Trucks

12:00pm - 12:45pm

Voices of Innovation with Iain Conn: Shaping the Energy Transition

Jason Bordoff, Professor of Professional Practice and Founding Director, Center on Global Energy Policy Columbia University
 Iain Conn, Chief Executive Officer, Centrica

12:40pm - 01:50pm

Luncheon and Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Rick Perry, Secretary of Energy, United States Department of Energy

12:45pm - 01:30pm

What's New at MIT: A Conversation

Susan Kish, Agora Curator, IHS Markit
 Dr. Robert Armstrong, Director, MIT Energy Initiative, Chevron Professor of Chemical Engineering, MIT
 Christoph Reinhart, Professor and Director, Building Technology Program, MIT
 Kripa Varanasi, Chairman, Infinite Cooling, Professor, MIT
 Karthish Manthiram, Professor in Chemical Engineering, MIT

12:45pm - 01:30pm

Voices of Innovation with Vaclav Smil: Reconciling slow transition and fast climate change

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Dr. Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba

01:30pm - 02:00pm

Book Signing with Vaclav Smil

Dr. Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba

02:00pm - 05:30pm

Agora Pods: Afternoon Sessions

Energy Storage Systems and Electrified Vehicles 02:00pm - 02:30pm

Simona Onori, Assistant Professor, Energy Resources Engineering, Stanford University

Impact of Digitalization on Emissions 02:00pm - 02:30pm

Brian Forbes, Managing Director – Accenture Consulting, Accenture
 Isabel Mogstad, Senior Manager, EDF+Business, Environmental Defense Fund
 Sylvain Vaquer, Manager – Accenture Strategy, Energy, Accenture

Investment in Colombia and the new Permanent Allocation of Areas Process (PPAA) 02:00pm - 02:30pm

Luis Miguel Morelli, President, National Hydrocarbon Agency

The Science of Marine Microplastics: what do we know/need to know? 02:30pm - 03:00pm

Scott M. Gallager, Associate Scientist, Woods Hole Oceanographic Institution

Decarbonization - From All Electric Ferries to Offshore Rigs 02:30pm - 03:00pm

Stig Olav Settemsdal, CTO Offshore Solutions, Siemens

Cloud - Virtually Unlimited Compute Power for Infinite Possibilities 02:30pm - 03:00pm

Franz Deimbacher, Worldwide Technical Leader for Energy, Amazon Web Services (AWS)

Maximizing Value from Gas and Coal Plants 03:00pm - 03:30pm

Ted Miller, Energy Industry Director, Uptake

Capturing fugitive methane gas from landfills 03:00pm - 03:30pm

The Inexcusable Great Divide 03:30pm - 04:00pm

Democratizing Geothermal Power 03:30pm - 04:00pm

Ammar Alali, Co-Founder, Eden GeoPower

Next-generation separation, purification and catalyst technologies 04:00pm - 04:30pm

Cost-effective multilateral completions of sidetracks and wells 04:00pm - 04:30pm

Alexander Kashlev, Chief Executive Officer, ADL Completions

How does diversity and inclusion improve innovation? 04:00pm - 04:30pm

Bob Karschnia, VP, GM, Wireless, Emerson
 Laura Schafer, VP Sales, Precision Fluid Control | Fluid and Motion Control, Emerson

Demand Response: energy efficiency in the power sector 04:30pm - 05:00pm

Ian Schneider, Research Assistant, Laboratory for Information and Decision Systems, PhD Candidate, MIT

Kairos Aerospace, an OGCI portfolio company 04:30pm - 05:00pm

Steven Deiker, Chief Executive Officer, Kairos Aerospace

Open Data Universe in Oil and Gas 04:30pm - 05:00pm

Autonomous Shipping and the Future of Maritime Transportation 05:00pm - 05:30pm

Mikko Lepistö, Digital Lead, Marine and Ports, ABB

The Surprising AI Future of Renewables 05:00pm - 05:30pm

Atanu Basu, Chief Executive Officer and Founder, Ayata

02:00pm - 06:30pm

Lyceum Labs: Afternoon Labs

Mobility: The 5 levels of Automation 02:00pm - 02:50pm

Jeremy Carlson, Principal Analyst and Manager, IHS Markit

US Play Review 02:00pm - 02:50pm

Impact of quantum computing on global military balance of power? 03:00pm - 03:50pm

How Cloud Delivered AI- and ML-Based Services Are Set to Disrupt the Energy Sector. 03:00pm - 03:50pm

Cliff Grossner, Senior Research Director, IHS Markit

Assessing LNG Potential in South and Southeast Asia 04:00pm - 04:50pm

Zhi Xin Chong, Associate Director, IHS Markit
 Geena Chatterji, Sr. Research Analyst II, IHS Markit
 Rashika Gupta, Director Power, Gas, Coal and Renewables, IHS Markit
 Vidur Singhal, Senior Gas Analyst, South Asia Power, Gas Coal and Renewables – Gurgaon, India, IHS Markit

Transformation and Disruption in the Ocean Energy Sector 04:00pm - 04:50pm

Leslie-Ann McGee, Assistant Director, Center for Marine Robotics, Woods Hole Oceanographic Institution

Decarbonization vs. Profit: A Workshop in reality 04:30pm - 06:30pm

Chris Hamlin, Director Operational Certainty Consulting, Emerson
 Ana Gonzalez Hernandez, Resource Efficiency Consultant and Commercialization Manager, Emerson

NGLs and the Global Chemical Market 05:00pm - 05:50pm

Darryl Rogers, Vice President, Midstream Oil and NGL Research and Consulting, Energy, IHS Markit
 Veeral Mehta, Senior Consultant, Midstream Oil and NGLs, IHS Markit
 Steve Lewandowski, Vice President, Global Olefins, IHS Markit

Outlook for North American Shale Gas 05:00pm - 05:50pm

Matthew Palmer, Research and Analysis Manager, Global Gas, IHS Markit
 Reed Olmstead, Director, North America Plays and Basins, Upstream Oil and Gas Insight, IHS Markit

02:00pm - 02:45pm
Voices of Innovation with David Keith: Exploring new avenues to tackle climate change

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 David W. Keith, Professor of Applied Physics, Professor of Public Policy; Founder, Carbon Engineering, Harvard University

02:00pm - 02:45pm
Special Session on Africa: Foundations for New Investment

Daniel Berkove, Senior Associate, Energy, IHS Markit
 HE Mme Lelenta Hawa Baba Ba, Minister, Ministry of Mines and Petroleum, Mali
 Dr. Maikanti K. Baru, Group Managing Director, Nigerian National Petroleum Corporation (NNPC)
 Immanuel Mulunga, Managing Director, National Petroleum Corporation of Namibia (NAMCOR)
 Ernest Rubondo, Executive Director, Petroleum Authority of Uganda
 Abdirashid Mohamed Ahmed, Minister, Ministry of Petroleum and Mineral Resources, Somalia
 Atty. Saifuah-Mai Gray, President and Chief Executive Officer, National Oil Company of Liberia

02:00pm - 02:45pm
Next Wave of LNG

The “LNG investment impasse” has been broken. A large number of LNG projects across the global are working toward commercialization. What are the challenges to overcome? How quickly can supply be brought on? Where are the future demand centers?

Michael Stoppard, Chief Strategist, Global Gas, Energy; CERAWEEK Vice Chairman, IHS Markit
 Andy Calitz, Chief Executive Officer, LNG Canada
 Peter Coleman, CEO and Managing Director, Woodside Energy Ltd
 Philippe Sauquet, President, Gas, Renewables and Power and President, Strategy-Innovation, TOTAL
 Shin Hosaka, Deputy Commissioner for Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry (METI)

02:00pm - 03:00pm
Agora Studios
What Does the Hydrogen Transportation Economy Look Like? 02:00pm - 03:00pm

Andrew Fulbrook, Executive Director of Powertrain and Compliance Forecasting, IHS Markit
 Barney Crockett, Lord Provost of Aberdeen City, Aberdeen City Council
 Bashir Dabbousi, Director, Technology Strategy and Planning, Saudi Aramco
 Bill Elrick, Executive Director, CaFCP

Will Quantum Computing Disrupt Energy - and When? 02:00pm - 03:00pm

Ian Weightman, Senior Vice President, Technology, IHS Markit
 Leonardo Dueñas-Osorio, Associate Professor, Civil and Environmental Engineering, Rice University
 Ben Porter, Director of Business Development - Quantum Computing, Microsoft Corporation
 Marco Fiorentino, Distinguished Technologist, Hewlett Packard Enterprises

02:50pm - 03:30pm
Global Ministerial Dialogue

Resource availability, technology, declining costs of renewables, and climate change are driving nations to rethink and diversify energy strategies. Oil and gas producers are seeking to diversify revenue sources. Energy consumers everywhere are seeking cheaper and lower carbon solutions. Learn from ministers at the center of the transition of how they manage policy choices.

Carlos Pascual, Senior Vice President, IHS Markit
 Minister Bento Albuquerque, Minister of Mines and Energy, Brazil
 Minister María Fernanda Suárez Londoño, Minister of Mines and Energy, Ministry of Mines and Energy, Colombia
 H.E. Rocío Nahle García, Secretary of Energy, Ministry of Energy Mexico
 Hon. Amarjeet Sohi, Minister of Natural Resources, Government of Canada

02:50pm - 03:30pm
Methane Emissions: Getting to zero

Fugitive methane emissions offer a practical and quick route to reduce global greenhouse emissions. What are the policies and technologies that can be brought to bear?

Daniel Yergin, Vice Chairman, IHS Markit
 Staale Gjervik, President, XTO Energy
 Fred Krupp, President, Environmental Defense Fund (EDF)
 Bernard Looney, Chief Executive, Upstream, BP plc

03:30pm - 04:30pm
Agora Studios

Financing Innovation Across the Energy System 03:30pm - 04:30pm

Timothy Gardner, Vice President, Power and Gas Consulting, IHS Markit
 Rhea Hamilton, Ventures Director, OGCI Climate Investments
 Dr. Emily Reichert, Chief Executive Officer, Greentown Labs

Digital Skills and the Workforce 03:30pm - 04:30pm

Susan Kish, Agora Curator, IHS Markit
 Tasnim Al Mzaini, Head of Integrated Production Planning, Digital Unit, Abu Dhabi National Oil Company (ADNOC)
 Biswajit Roy, Director (HR and BD) and CEO, Hydrocarbon Sector Skill Council, Oil India Ltd.
 Mike Train, President, Emerson; Chairman, Automation Solutions, Emerson
 Leah McGowen-Hare, Trailhead Evangelist and Senior Director, Salesforce

03:35pm - 04:15pm
Future of Renewables in the Power Mix

Power generation is critical to the growth prospects of natural gas. But natural gas faces strong competition from competitively priced coal and the declining cost of renewable power. And yet natural gas offers unique benefits to help enable and support the power industry's shift to a lower carbon future. How will this play out in different markets?

Philippe Frangules, Vice President, Energy, IHS Markit
 Chris Brown, President, North America, Vestas
 Georgios Papadimitriou, Chief Executive Officer, North America, Enel Green Power
 Thomas Broström, President, Ørsted North America
 Tim Holt, CEO, Power Generation Services, Siemens Energy

03:35pm - 04:15pm
Pathways to Technology Transformation

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Caglayan Arkan, Senior Vice President for Manufacturing and Resources Industry, Microsoft Corporation
 Greg Leveille, Chief Technology Officer, ConocoPhillips
 Shashi Shanker, Chairman and Managing Director, Oil and Natural Gas Corporation Limited
 Peter Terwiesch, President, Industrial Automation Division and Member of the Group Executive Committee, ABB Ltd

04:20pm - 05:00pm
CCUS Strategies and Business Models

Carbon capture, use, and storage is recognized as a vital option in the quest to reduce carbon emissions. The technology exists and is proven, but deployment needs to accelerate. How can policymakers and industry participants work together to provide the necessary incentives to spur activity and gain public trust?

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Sally M. Benson, Co-Director, Precourt Institute for Energy, Director, Global Climate and Energy Project, Professor, Energy Resources Engineering, Stanford University
 Mark W. Menezes, Under Secretary of Energy, United States Department of Energy
 Dr. Pratima Rangarajan, Chief Executive Officer, OGCI Climate Investments
 John Mingé, Former Chairman and President, BP America

04:20pm - 05:00pm
Plastics Growth: Opportunities and Risks in Sustainability

Plastics has been one of the world's great growth stories. Through more than 50 years of uninterrupted growth, plastics are now one of the foundations of modern life. Everyday items – from eyeglasses and bike helmets and cellphones to shoes – are made more durable and lighter thanks to plastics. The growing demand for plastics, however, has created an unexpected and serious waste problem that now threatens that growth. As much as 8 million metric tons of plastics waste ends up in the oceans every year. As a result, consumers and governments are raising the bar on expectations on plastics, often supporting bans and de-selection initiatives that impact its potential growth. What are the real risks and opportunities the industry faces?

David Witte, Senior Vice President; Division Head, Energy and Chemicals, IHS Markit
 Jim Fitterling, Chief Executive Officer, The Dow Chemical Company

04:30pm - 05:15pm
Voices of Innovation with Vijay Swarup: Solving the world's challenges through research

Dr. Robert Armstrong, Director, MIT Energy Initiative, Chevron Professor of Chemical Engineering, MIT
 Dr. Vijay Swarup, Vice President of Research and Development, ExxonMobil Research and Engineering Company

04:30pm - 05:30pm
Agora Studios
New Energy Technology Pathways for China 04:30pm - 05:30pm

Xizhou Zhou, Managing Director, IHS Markit
 Valerie Karplus, Assistant Professor, Global Economics and Management Group, Sloan School of Management, MIT
 Sarah Ladislaw, Senior Vice President and Director, Energy and National Security Program, Center for Strategic and International

Studies (CSIS)

Larry Cochrane, Managing Director and CTO, Azure Global Energy Industry, Microsoft

Voice of Mayors: The energy city of the future 04:30pm - 05:30pm

Carlos Pascual, Senior Vice President, IHS Markit

Christine Sagen Helgø, Mayor, City Of Stavanger

Michael Savage, Mayor, Halifax Regional Municipality

Mayor Sylvester Turner, Mayor, City of Houston

Barney Crockett, Lord Provost of Aberdeen City, Aberdeen City Council

05:05pm - 05:45pm

European Gas Transit: A tangled knot

Record flows of pipeline natural gas from Russia to Europe have occurred in 2018. Meanwhile the European Union presses on with completion of the Single Energy Market. The future will see new pipelines come into operation and new commercial terms for some core transit routes. All parties—sellers, importers, and transit routes—will want to establish the new basis for reliable and secure flows of natural gas to continue.

Simon Blakey, Advisor, Global Gas, IHS Markit

Grethe Kristin Moen, President and CEO, Petoro AS

Thilo Wieland, Executive Director, Exploration and Production in Russia, North Africa and South America, Wintershall

Amos Hochstein, SVP, Tellurian

Maria Rita Galli, Executive Vice President Business Development, Snam S.p.A

05:05pm - 05:45pm

How Technology is Creating Business Value

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

Mike Train, President, Emerson; Chairman, Automation Solutions, Emerson

Simon Mulcahy, Chief Innovation Officer, Salesforce

Bill Vass, Vice President of Technology, Amazon Web Services (AWS)

Ahmed Hashmi, Chief Digital and Technology Officer, Upstream, BP plc.

05:45pm - 06:30pm

Nuclear Fission: New pathways

New studies suggest nuclear is vital to decarbonization. What are the new policies and business models in place to reintroduce nuclear energy as a viable option?

Robert Stoner, Deputy Director for Science and Technology, MIT Energy Initiative

Rita Baranwal, Director, Gateway for Accelerated Innovation in Nuclear (GAIN), Idaho National Laboratory

Professor Jacopo Buongiorno, Professor, Nuclear Science and Engineering; Director, CANES, Massachusetts Institute of Technology

Robert (Bob) Ethier, Vice President, Market Operations, ISO New England

J. Clay Sell, Chief Executive Officer, X-energy

05:50pm - 06:30pm

Building Tomorrow's North American Infrastructure

Daniel Yergin, Vice Chairman, IHS Markit

David Farr, Chairman and Chief Executive Officer, Emerson

Bernard L. McNamee, Commissioner, Federal Energy Regulatory Commission

Jim Teague, Director and Chief Executive Officer, Enterprise Products Partners L.P.

06:00pm - 06:30pm

Voices of Innovation with Simon Mulcahy: Continuous innovation

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

Simon Mulcahy, Chief Innovation Officer, Salesforce

06:30pm - 07:30pm

Conference-wide Reception

07:15pm - 09:00pm

Special Dinner: India's Exploration and Production Opportunities—A paradigm shift

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

Daniel Yergin, Vice Chairman, IHS Markit

Ranjit Banerjee, Adviser, Strategic Planning and Finance, Directorate General of Hydrocarbons (DGH)

Dr. V.P. Joy, Director General, Directorate General of Hydrocarbons

Dr. M. M. Kutty, Secretary, Ministry of Petroleum and Natural Gas, Government of India

07:30pm - 09:00pm

Dinner and Dialogue: Women in Energy

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit

Patti Poppe, President and Chief Executive Officer, CMS Energy

Emeliana Rice-Oxley, Vice President Exploration, Upstream, PETRONAS

Fiona Wild, Vice President Sustainability and Climate Change, BHP

Melody Boone Meyer, President - Melody Meyer Energy, Women with Energy, Melody Meyer Energy and Women with Energy

Thursday March, 14

07:30am - 08:30am

Nature Based Solutions

Nature Based Solutions (NBS) is the use of nature for tackling variety of socio-environmental challenges including climate change. NBS may present a short-term opportunity to mitigate emissions and may be able to deliver about a third of GHG reductions required. What are some of these solutions? What is the cost? How are some of the challenges such as verification being addressed?

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 Marielle Canter Weikel, Senior Director, Responsible Mining and Energy, Conservation International
 Fiona Wild, Vice President Sustainability and Climate Change, BHP
 David Victor, Co-Director, Deep Decarbonization Initiative, University of San Diego

07:30am - 08:30am

Energy Innovation Pioneers: The Future of Electric Power

7:30 AM Energy Innovation Pioneers: The future of electric power In an environment of technological change and ambitious public policy requirements, the electric power sector has the monumental task of discovering the technologies and business models that achieve society's goals at the lowest cost to consumers. New innovations, spanning generation and storage to engaging the end consumer, are necessary to meet the challenge. This panel discusses how startups foster innovation and their vision for the future of electric power. Agora Studio

Alex Klaessig, Director, Power and Renewables, IHS Markit
 Matt Duesterberg, Chief Executive Officer, OhmConnect
 Merrick Kerr, Chief Commercial Officer, Energy Vault
 Thomas McAndrew, President and Chief Executive Officer, Enchanted Rock
 Andrew Scott, Chief Executive Officer, Orbital Marine Power Ltd

07:30am - 08:45am

Strategic Dialogues (Breakfast) (view more +)
Distributed Energy Resources: New opportunities and challenges at the grid edge 07:30am - 08:45am

Meg McIntosh, Senior Director, Energy, IHS Markit
 Frank Demaille, President and CEO, ENGIE North America
 Mark Hedges, Head of Distributed Power Systems North America, Centrica
 Steven Martin, Acting CEO, GE Digital and Chief Digital Officer, GE Power, GE Power
 Matthew Croucher, Director of Business Analytics, Entergy

Grid Interconnectivity and Cities 07:30am - 08:45am

Wade Shafer, Associate Director, Power, Gas, Coal, and Renewables, IHS Markit
 Jay Allardyce, Executive Vice President - Industry, Product and Partnerships, Uptake Technologies
 Anders Sjoelin, Lead Division Manager Power Grids Division, North America, ABB
 Amit Narayan, Founder and CEO, AutoGrid Systems
 Bud Vos, Chief Executive Officer, Enbala

Investment Opportunities in a Decarbonized Europe 07:30am - 08:45am

Coralie Laurencin, Research and Analysis Director, Global Gas, IHS Markit
 Kunal Chandra, Vice President, New Energy Businesses, Siemens Power and Gas
 Holger Lösch, Deputy Director General, German Industry Association (BDI)
 Paula Pinho, Head, Energy Policy Coordination Unit, European Commission
 Maxim Timchenko, Chief Executive Officer, DTEK, LLC

Latin American Power Auctions: Optimizing for sustainability and reliability? 07:30am - 08:45am

Lisa Pearl, Managing Director, Americas Power, Gas, Coal and Renewables, IHS Markit
 Adrián Katzew, Chief Executive Officer, Zuma Energía
 Justin DeAngelis, Partner, Denham Capital
 Agustín Delgado Martín, Chief Innovation and Sustainability Officer, Iberdrola
 Diego Mesa, Vice Minister of Energy, Ministry of Energy and Mines of Colombia

Offshore Wind: The new frontier 07:30am - 08:45am

Eduard Sala de Vedruna, Executive Director, Global Power and Renewables, Energy, IHS Markit
 Christer Af Geijerstam, President, US Offshore Wind, Equinor
 Enrique Álvarez-Uría, Offshore Wind Business Development Director, North America, EDP Renewables
 Philippe Kavafyan, Chief Executive Officer, MHI Vestas Offshore Wind

Positioning Renewables in Asia: Finding the right policy mix 07:30am - 08:45am

Zhi Xin Chong, Associate Director, IHS Markit
 Toshiro Kudama, Senior EVP, Chief Power Development Officer, JERA Co.
 Bernard Nee, Deputy Chief Executive, Energy Market Authority of Singapore

Xizhou Zhou, Managing Director, IHS Markit

Texas: Passing the stress test? 07:30am - 08:45am

Michael Pickens, Associate Director, Energy, IHS Markit
 Sara Graziano, SVP of Corporate Development, Vistra Energy
 Jim Greer, Executive Vice President and Chief Operating Officer, Oncor
 Bill Magness, President and Chief Executive Officer, Electric Reliability Council of Texas (ERCOT)
 Sid Sachdeva, Chief Executive Officer, Innowatts

Meeting the World's Growing Appetite for Coal: Future supply sources? 07:30am - 08:45am

James Stevenson, Senior Director, Global Coal, Energy, IHS Markit
 John W. Hanekamp, US Thermal Coal Sourcing Consultant, Carbonairo, LLC
 Mark Morey, Senior Director, IHS Markit
 Jack Porco, President and Chief Commercial Officer, Xcoal Energy and Resources

08:30am - 10:30am

Lyceum Workshop: Blockchain for the Boardroom – An Interactive Workshop for Executives

Energy leaders will get hands-on experience with a live distributed ledger platform. The Lyceum Workshop will use an energy supply chain example to demonstrate the relationship between human-readable contracts, live data and their implementation in smart contracts on blockchain. You will walk step-by-step through the automated contract execution process.

William Fox, Chief Product Officer, Data Gumbo
 Lisa M. Smith, Chief Corporate Development Officer, Data Gumbo

09:00am - 12:00pm

Agora Pods: Morning Sessions

Customer Rewards for Residential Energy Savings 09:00am - 09:30am

Matt Duesterberg, Chief Executive Officer, OhmConnect

E.ON - Solar/Storage case study 09:00am - 09:30am

Nathanaël Esposito, President Solar PV and Storage NA, E.ON Climate and Renewables North America

Solar plus storage equals powerful solutions 09:00am - 09:30am

Nathanaël Esposito, President Solar PV and Storage NA, E.ON Climate and Renewables North America

Storm Readiness 09:00am - 09:30am

Morris Kemper, Enterprise Architect, GE Power

Tidal Turbine Technology 09:30am - 10:00am

Andrew Scott, Chief Executive Officer, Orbital Marine Power Ltd

Solid State Battery Technology 09:30am - 10:00am

Artificial Intelligence for Smart Energy 09:30am - 10:00am

Energy Storage in Stacked Concrete Blocks 10:00am - 10:30am

Merrick Kerr, Chief Commercial Officer, Energy Vault

Catalyzing the sustainable production of fuels and chemicals 10:00am - 10:30am

Thomas Jaramillo, Associate Professor of Chemical Engineering, Senior Fellow, Precourt Institute for Energy, Director, SUNCAT Center, Stanford University

A Bright New Future: The Rise of Hydrogen and Photocatalysis 10:00am - 10:30am

Trevor Best, Chief Executive Officer, Syzygy Plasmonics, a TPH Disruptor Company

Microgrids-as-a-service 10:30am - 11:00am

Thomas McAndrew, President and Chief Executive Officer, Enchanted Rock

Digital Twins 10:30am - 11:00am

Guido Jouret, Chief Digital Officer, ABB

Energy Web Foundation - an Update 10:30am - 11:00am

Hervé Touati, Co-founder and Chief Executive Officer, Energy Web Foundation

Exploring the Role of CCUS in a Rapidly Changing Energy System 11:00am - 11:30am

Emre Gençer, Research Scientist, MIT Energy Initiative, MIT

Wind Power: Broaden Your Optionality with Digital 11:00am - 11:30am

Jay Allardyce, Executive Vice President - Industry, Product and Partnerships, Uptake Technologies

Leveraging Machine Learning and Artificial Intelligence to Transform Tomorrow's Digital Utility 11:30am - 12:00pm

Sid Sachdeva, Chief Executive Officer, Innowatts

Distributed Energy Resources: Economics and Distributional Impacts 11:30am - 12:00pm

Scott Burger, PhD Candidate, Research Associate and MITe Energy Fellow, MIT Energy Initiative

Transforming Air Travel 11:30am - 12:00pm

09:00am - 11:50am

Lyceum Labs: Morning Labs

What is TCFD and where is it going? 09:00am - 09:50am

Fiona Wild, Vice President Sustainability and Climate Change, BHP

What is the future of batteries in the power sector? 09:00am - 09:50am

Sam Wilkinson, Associate Director, Solar and Energy Storage Research, IHS Markit

Power Train Outlook 10:00am - 10:50am

Andrew Fulbrook, Executive Director of Powertrain and Compliance Forecasting, IHS Markit

Data, Governance, and Security | The foundations of rapid Innovation in the cloud 10:00am - 10:50am

Rohan Mathews, Worldwide Technical Leader, Storage Solutions, Amazon Web Services (AWS)

Fuel Economy and Compliance Forecasting – Current Prognosis 10:00am - 10:50am

Andrew Fulbrook, Executive Director of Powertrain and Compliance Forecasting, IHS Markit

Business Case for Microgrids 11:00am - 11:50am

David Victor, Co-Director, Deep Decarbonization Initiative, University of San Diego

Ryan Hanna, Post-doctoral Researcher, University of California, San Diego

Myths and Realities: energy, environment, economy 11:00am - 11:50am

Dr. Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba

09:00am - 09:50am

State of the North America Power Business

This CEO discussion considers the changing electricity sector business landscape, including trends in consumer demand and the evolving electricity supply portfolio that reflects the evolving state of technology, wholesale market rules, and public policies. Key questions focus on how to align business models, respond to increasing climate change concerns, and reshape electricity infrastructure across the next investment cycle.

Lawrence Makovich, Vice President and Senior Advisor, Energy; CERAWEEK Vice Chairman, IHS Markit

Mauricio Gutierrez, Chief Executive Officer, NRG Energy

Curtis A. Morgan, President and Chief Executive Officer, Vistra Energy

Eric E. Silagy, President and Chief Executive Officer, Florida Power and Light Company

09:00am - 10:00am

Agora Studios

Integrated Transport Systems for the Future City 09:00am - 10:00am

Katherine Hardin, Vice President, IHS Markit

Mohd Najib Mohd, Executive Director, Project Management, Kuala Lumpur City Hall

Aric Ohana, Co-Founder, Envoy There

Adie Tomer, Fellow - Metropolitan Policy Program, Brookings Institution

Abe Yokell, Co-Founder and Managing Partner, Congruent Ventures

Geo-engineering: How real and how immediate? 09:00am - 10:00am

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

David W. Keith, Professor of Applied Physics, Professor of Public Policy; Founder, Carbon Engineering, Harvard University

David Victor, Co-Director, Deep Decarbonization Initiative, University of San Diego

Steven Koonin, University Professor, New York University

5G Providing a Backbone to the Smart Energy Future 09:00am - 10:00am

Sam Lucero, Senior Principal Analyst, M2M and IoT, IHS Markit

General Steven L. Kwast, Commander, Air Education and Training Command, U.S. Air Force

Raj Paul, GM/Regional Lead Automotive Industry, Microsoft Corporation

09:50am - 10:20am

Leadership Dialogue

Daniel Yergin, Vice Chairman, IHS Markit

Hendrik Gordenker, Executive Chairman, JERA Co. Inc.

10:20am - 11:05am

Gas and Renewables: Partners or Competitors?

Michael Stoppard, Chief Strategist, Global Gas, Energy; CERAWEEK Vice Chairman, IHS Markit

Paddy Padmanathan, Chief Executive Officer and President, ACWA Power International

Ernie Thrasher, CEO and Chief Marketing Officer, Xcoal Energy and Resources

Prabhat Singh, Managing Director and Chief Executive Officer, Petronet LNG Ltd.

10:30am - 11:15am

Agora Studios**The Quest for Better Batteries** 10:30am - 11:15am

Sam Wilkinson, Associate Director, Solar and Energy Storage Research, IHS Markit
Khalil Amine, Sr. Materials, GL/Argonne Distinguished Fellow, Argonne National Laboratory
Henrik Fisker, Founder, Chairman and CEO, Fisker
Mateo Jaramillo, CEO and Co-Founder, Form Energy
Elsa Olivetti, Associate Professor of Energy Studies, Department of Materials Science and Engineering, MIT

Urban Resilience in a Changing Climate 10:30am - 11:15am

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit
John Berger, Chief Executive Officer, Sunnova Energy Corporation
Lara Cottingham, Chief Sustainability Officer, City of Houston, Office of Sustainability
Gil Quiniones, President and Chief Executive Officer, New York Power Authority (NYPA)
Naheed Nenshi, Mayor, The City of Calgary

10:30am - 11:15am

Voices of Innovation with Dr. Venkat Sumantran: Faster, Smarter, Greener

Envision a new world of mobility that is connected, heterogeneous, intelligent, and personalized. Come hear from Dr. Venkat Sumantran about how the world is moving from the century of the automobile to the century of mobility. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
Dr. V. Sumantran, Chairman, Celeris Technologies

11:00am - 04:30pm

Agora Pods: Afternoon Sessions**Case Study: Technology Innovation Drives Integrated Asset Analytics** 11:00am - 11:30am

Todd Kubiak, Senior Technical Sales Consultant, Aveva

CarbonHouse: A new paradigm of global building production 02:00pm - 02:30pm

Mark Goulthorpe, Associate Professor Department of Architecture, MIT

Distributed Generation 02:00pm - 02:30pm**EVs and the Grid: Friends or enemies?** 02:00pm - 02:30pm

Doug Arent, Deputy Associate Laboratory Director, Scientific Computing and Energy Analysis, National Renewable Energy Laboratory

Lessons Learned Developing Sub-Saharan Africa (ex-SA)'s First and Fastest Utility-Scale Solar Project 02:00pm - 02:30pm

Chaim Motzen, Co-Founder, Gigawatt Global

What Can a City Learn from the University of California's Path to Carbon-Neutrality? 02:30pm - 03:00pm

Wendell Brase, Associate Chancellor - Sustainability, University of California - Irvine

Network Connectivity 02:30pm - 03:00pm

Morris Kemper, Enterprise Architect, GE Power

Recovering Cooling Water Using Electric Fields 03:00pm - 03:30pm

Maher Damak, Infinite Cooling, Co-Founder and Chief Executive Officer
Kripa Varanasi, Chairman, Infinite Cooling, Professor, MIT

Renewables and New Energy Solutions 03:30pm - 04:00pm

Per Christian Honningsvåg, Director Power and Utilities Industry, Microsoft Corporation

How improved computing is affecting the future of AI: Applications for energy and mobility 04:00pm - 04:30pm

Hassan Toorabally, Chief Operating Officer, Chief Technology Officer, ArchiTek

11:15am - 11:45am

Book Signing with Dr. Venkat Sumantran

Join Dr. Venkat Sumantran to receive a signed copy of his book, Faster, Smarter, Greener: The Future of the Car and Urban Mobility.

Dr. V. Sumantran, Chairman, Celeris Technologies

11:30am - 12:15pm

Voices of Innovation: Dr. Arun Majumdar : Scaling up energy innovations: promises and pitfalls

Join an energy expert and Stanford professor and the founding Director of the Advanced Research

Projects Agency - Energy (ARPA-E) on what it will take to scale energy innovations and the role of public policy in transforming global energy systems. Interviewed by Atul Arya, SVP and Chief Energy Strategist, IHS Markit.

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
Arun Majumdar, Co-Director, Precourt Institute for Energy, Jay Precourt Provostial Chair Professor, Department of Mechanical Engineering, Stanford University

11:30am - 12:30pm

Strategic Dialogues (view more +)

Battery Storage for the Grid: Climbing the growth curve 11:30am - 12:30pm

Sam Huntington, Senior Research Analyst, PGCR, IHS Markit
Jim Hughes, CEO and Managing Director, Prisma Energy Capital
Roger Kranenburg, Vice President, Energy Strategy and Policy, Eversource Energy
Doug Arent, Deputy Associate Laboratory Director, Scientific Computing and Energy Analysis, National Renewable Energy Laboratory
Kiran Kumaraswamy, VP Market Applications, Fluence

Emerging Economies: Reinventing the power sector in Africa 11:30am - 12:30pm

Andy Barrett, Senior Advisor, Global Gas and Power, Energy, IHS Markit
Jonathan Hoffman, Managing Director Business Development; Head of Southern Africa, Globeleq
Simon Kachapin, Chief Administrative Secretary, Ministry of Energy, Kenya
Riccardo Puliti, Senior Director, Energy and Extractive Industries Global Practice, The World Bank
HE Dr. Frehiwot Woldehanna, State Minister of Water, Irrigation and Energy, Government of Ethiopia

EV Charging Infrastructure: How will it develop? 11:30am - 12:30pm

Katherine Hardin, Vice President, IHS Markit
Alex Gruzen, Chief Executive Officer, WiTricity
Vic Shao, Chief Executive Officer, AMPLY Power
Katie Sloan, Director of eMobility, Southern California Edison
Frank Mühlon, Head, Global Business for Electric Vehicle Charging Infrastructure, ABB
Eric Ernst, Head of Technology, Formula E
Brendan Jones, Chief Operating Officer, Electrify America

Financing Power: Adjusting to the new risk profile 11:30am - 12:30pm

Timothy Gardner, Vice President, Power and Gas Consulting, IHS Markit
Jeffrey Holzschuh, Chairman, Institutional Securities Group, Morgan Stanley
Jonathon Kaufman, Co-Head of Power and Renewables Group - Americas, Credit Suisse
Steven Winn, Chief Development Officer, JERA Americas
Adi Blum, Managing Director, Energy and Power Infrastructure, BlackRock

Global Solar: Shifting the focus from cost to value 11:30am - 12:30pm

Francesco d'Avack, Senior Analyst, Global Renewables, IHS Markit
John Berger, Chief Executive Officer, Sunnova Energy Corporation
Emily Heitman, Vice President, US and Canada, Schneider Electric
Nathanaël Esposito, President Solar PV and Storage NA, E.ON Climate and Renewables North America
Francis O'Sullivan, Senior Vice President, Strategy, Lincoln Clean Energy (LCE)

Powering South and Southeast Asia's Growth: Coal, gas, renewables? 11:30am - 12:30pm

Ilke Karayigitoglu, Research and Analysis Director, Marina View, IHS Markit
Kian Min Low, Chief Development Officer, JERA Energy Development Asia, JERA Co.
Nick Cron, General Manager, Portfolio Optimization and Marketing, Xcoal Energy and Resources
Ginanjar Sofyan, President Director, Pertamina Power Indonesia

Wholesale Power Market Evolution 11:30am - 12:30pm

Douglas Giuffre, Director, Energy, IHS Markit
Robert (Bob) Ethier, Vice President, Market Operations, ISO New England
Bill Magness, President and Chief Executive Officer, Electric Reliability Council of Texas (ERCOT)
Andy Ott, President and Chief Executive Officer, PJM Interconnection
Clair J Moeller, President and Chief Operating Officer, Midcontinent Independent System Operator (MISO)

Coal's Capital Challenges: Cost, availability and investment horizons 11:30am - 12:30pm

Ted O'Brien, Capital Markets and Marketing, Xcoal Energy and Resources
Jeremy Sussman, Managing Director, Clarkson's Platou Securities
Jesse Parrish, Chief Financial Officer, Blackhawk Mining
Mark Morey, Senior Director, IHS Markit

11:30am - 12:30pm

Agora Studios

Hydrogen: What role in heat and power? 11:30am - 12:30pm

Catherine Robinson, Executive Director, IHS Markit
Kunal Chandra, Vice President, New Energy Businesses, Siemens Power and Gas
Didier Holleaux, Executive Vice President, ENGIE
Jan Willem van Hoogstraten, Chief Executive Officer, EBN B.V.

Carbon Buildings: A scalable market for hydrocarbons 11:30am - 12:30pm

Dewey Johnson, VP, Research and Analysis, Chemical, IHS Markit
 Mark Goulthorpe, Associate Professor Department of Architecture, MIT
 Michael Lepech, Senior Fellow, Stanford Woods Institute for the Environment, Associate Professor, Civil and Environmental Engineering, Stanford University
 Carl Mesters, Chief Scientist Chemistry and Catalysis, Shell

12:45pm - 02:00pm
Luncheon and Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Neil Chatterjee, Chairman, Federal Energy Regulatory Commission (FERC)

12:45pm - 01:15pm
Voices of Innovation with Henrik Fisker: Designing the next car, from the inside out

Henrik Fisker's designs have been synonymous with creativity, innovation and entrepreneurship. Today, Fisker is designing and developing a fully connected electric car with autonomous driving features, longer range and lower cost batteries, set to be the "spiritual successor" to the Fisker Karma luxury electric car.

Henrik Fisker, Founder, Chairman and CEO, Fisker

12:45pm - 01:15pm
What's New at Stanford: A Conversation

Stanford is recognized as a leader in technology and engineering, and its location in the heart of Silicon Valley has solidified its position as being at the forefront of that ecosystem. Hear from Stanford leaders on their agenda for energy technology, sustainability, digitalization and policy.

Susan Kish, Agora Curator, IHS Markit
 Arun Majumdar, Co-Director, Precourt Institute for Energy, Jay Precourt Provostial Chair Professor, Department of Mechanical Engineering, Stanford University
 Thomas Jaramillo, Associate Professor of Chemical Engineering, Senior Fellow, Precourt Institute for Energy, Director, SUNCAT Center, Stanford University
 Michael Lepech, Senior Fellow, Stanford Woods Institute for the Environment, Associate Professor, Civil and Environmental Engineering, Stanford University

02:00pm - 03:50pm
Lyceum Labs: Afternoon Labs

Stanford Reserved Lab 02:00pm - 02:50pm

An Ethical Crisis in Computing? 03:00pm - 03:50pm

Moshe Vardi, Director, Ken Kennedy Institute for Information Technology (K2I), Rice University

Direct Air Capture + Cheap Solar - Carbon-neutral Hydrocarbon Fuels 03:00pm - 03:50pm

David Keith, Mitsui Career Development Professor and Assistant Professor of System Dynamics, MIT Sloan School of Management

Decarbonization vs. Profit: A Workshop in reality 03:00pm - 03:30pm

Chris Hamlin, Director Operational Certainty Consulting, Emerson
 Ana Gonzalez Hernandez, Resource Efficiency Consultant and Commercialization Manager, Emerson

02:00pm - 03:00pm
Agora Studios

Blockchain and the Power Consumer: Myth or reality? 02:00pm - 03:00pm

Eduard Sala de Vedruna, Executive Director, Global Power and Renewables, Energy, IHS Markit
 Hervé Touati, Co-founder and Chief Executive Officer, Energy Web Foundation
 Ben Bishop, Digital Innovation Specialist, Siemens
 Sam Salisbury, Centrica Innovations Director – Labs, Centrica
 Rich Meszaros, Managing Director – Accenture Digital, Accenture

Powering the Cities of the Future 02:00pm - 03:00pm

Roger Kranenburg, Vice President, Energy Strategy and Policy, Eversource Energy
 Steven Koonin, University Professor, New York University
 Naheed Nenshi, Mayor, The City of Calgary
 Barbara Humpton, CEO, Siemens US

02:00pm - 02:45pm
Voices of Innovation with Eric Ernst: ABB Formula-E driving future EV technology

Eric Ernst has to ensure that the Formula E championship series remains at the forefront of innovation in motorsport. How does that translate to innovation for the next generation of passenger cars or batteries? Hear an inside take from Eric Ernst, Head of Technology at Formula E.

Ian Weightman, Senior Vice President, Technology, IHS Markit
 Eric Ernst, Head of Technology, Formula E

02:10pm - 02:55pm
Deep Decarbonization: What does it mean?

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
Didier Holleaux, Executive Vice President, ENGIE
Artur Runge-Metzger, Director, Directorate General for Climate Action, European Commission, EU
Dr. Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba
David Victor, Co-Director, Deep Decarbonization Initiative, University of San Diego

02:55pm - 03:40pm**New Frontiers for Power: Serving the customer of the future**

This CEO discussion focuses on the current and future electricity customer experience and the intersection of changing consumer preferences and emerging technological innovations. Key questions focus on new ways to analyze consumer segments, apply software and digital technologies, manage green energy offerings, and anticipate the impact of electrification trends.

Lawrence Makovich, Vice President and Senior Advisor, Energy; CERAWEEK Vice Chairman, IHS Markit
Anne Pramaggiore, Senior Executive Vice President and CEO of Exelon Utilities, Exelon Corporation
Scott Prochazka, President and Chief Executive Officer, CenterPoint Energy
Rolf Gibbels, Head of Worldwide Business Development, Power and Utilities Industry, Amazon Web Services (AWS)

03:30pm - 04:15pm**Voices of Innovation with Ganesh Bell: Real impact of artificial intelligence on power**

How can companies move beyond the buzzwords of technology, beyond the hype curve of disruption, into the real areas of impact around growth and efficiency? Hear insights from Ganesh Bell, President of Uptake, an industrial artificial intelligence and software leader.

Ganesh Bell, President, Uptake
Nate Connors, CERAWEEK Program Manager, IHS Markit
Roger Kranenburg, Vice President, Energy Strategy and Policy, Eversource Energy

03:30pm - 04:30pm**Power: Realizing value from digital transformation**

The power sector is experiencing a confluence of major technological shifts: growing penetration of renewables; use of digital technologies to help predict, manage, and control complex power networks; and increasing concerns for security of power networks from cyber-attacks. How will the power sector navigate through these changes while continuing to meet demands of customers? How are new entrants disrupting the sector? What will be the role of regulation in the face of fast changing digital technologies?

Mark Griffith, Senior Research Director, IHS Markit
Doug Arent, Deputy Associate Laboratory Director, Scientific Computing and Energy Analysis, National Renewable Energy Laboratory
Larry Cochrane, Managing Director and CTO, Azure Global Energy Industry, Microsoft
Sonny Garg, Global Lead, Energy Solutions, Uptake Technologies
Robert Yeager, President, Power and Water Solutions, Emerson
Laiq Ahmad, Chief Technology Officer, GE Power Digital

04:00pm - 04:45pm**Electrifying Transportation: How far, how fast?**

Shifting transportation from oil to electricity is critical for curbing climate change. What scope and scale are needed to meet climate objectives? Is the electric grid ready for the transition? How can the consumer experience be enhanced? What are viable pathways for infrastructure development? Power utility and technology leaders will discuss hands-on experience and plans in electrifying transportation, including passenger cars, heavy trucks, fleet vehicles, port operations, and enabling infrastructure.

Jone-Lin Wang, Vice President, Power and Renewables, IHS Markit
Pedro Pizarro, President and CEO, Edison International
Patti Poppe, President and Chief Executive Officer, CMS Energy
Greg Scheu, President, Americas Region, ABB

04:00pm - 04:45pm**European Energy Security Dialogue**

Carlos Pascual, Senior Vice President, IHS Markit
Emily Haber, German Ambassador to the United States, German Embassy Washington
Dan Brouillette, Deputy Secretary of Energy, United States Department of Energy

04:45pm - 05:30pm**Digital Transformation and the Future of Power**

Jone-Lin Wang, Vice President, Power and Renewables, IHS Markit
Ganesh Bell, President, Uptake
Paul Browning, President and CEO, Mitsubishi Hitachi Power Systems Americas (MHPSA)
Gil Quiniones, President and Chief Executive Officer, New York Power Authority (NYPA)
Agustín Delgado Martín, Chief Innovation and Sustainability Officer, Iberdrola

04:45pm - 05:30pm

Coal's Grand Challenges and Opportunities

Global demand for coal continues to grow. The world has a healthy appetite, but the industry faces major challenges—capital investment, ownership ambition, declining quality in major basins, political opposition, and shifting demand patterns. How are global industry leaders addressing these critical issues?

Jim Thompson, Senior Director, Coal, Energy, IHS Markit
 Howard Gatiss, Chief Executive Officer, CMC Coal Marketing Company
 Glenn Kellow, President and Chief Executive Officer, Peabody
 Garold Spindler, Chief Executive Officer, Coronado Global Resources
 George Dethlefsen, Chief Executive Officer, Corsa Coal

05:30pm - 06:00pm

Special Session

Daniel Yergin, Vice Chairman, IHS Markit
 John Hickenlooper, Former Governor, State of Colorado

05:40pm - 06:30pm

Expert Dialogues (view more +)
Outlook for Global Fuels in 2019 05:40pm - 06:30pm

Samuel Andrus, Executive Director, Energy, IHS Markit
 Roger Diwan, Vice President, Financial Services, IHS Markit
 James Stevenson, Senior Director, Global Coal, Energy, IHS Markit
 Gautam Sudhakar, Senior Director, Global LNG, IHS Markit
 Charles Nevle, Vice President of Production, PointLogic Energy, OPIS by IHS Markit

Reducing CO2 in North American Power: Emerging technologies? 05:40pm - 06:30pm

Mark Griffith, Senior Research Director, IHS Markit
 Alex Klaessig, Director, Power and Renewables, IHS Markit
 Patrick Luckow, Associate Director, IHS Markit
 Wade Shafer, Associate Director, Power, Gas, Coal, and Renewables, IHS Markit

Solar and Storage: Exploring cost trends and business models 05:40pm - 06:30pm

Edurne Zoco, Research and Analysis Director, Solar and Energy Storage, Energy Technology, IHS Markit
 Francesco d'Avack, Senior Analyst, Global Renewables, IHS Markit
 Sam Huntington, Senior Research Analyst, PGCR, IHS Markit
 Sam Wilkinson, Associate Director, Solar and Energy Storage Research, IHS Markit

Why Power Costs Vary Globally: Technologies and fuels 05:40pm - 06:30pm

Xizhou Zhou, Managing Director, IHS Markit
 Rafael McDonald, Director, Global Gas and Global LNG, IHS Markit
 Anna Shpitsberg, Director, Global Power and Renewables, IHS Markit

06:30pm - 07:30pm

Conference-wide Reception

07:30pm - 09:00pm

New World of Cyber Rivalries: Securing the Future

Daniel Yergin, Vice Chairman, IHS Markit
 General (Ret) Keith Alexander, Founder, Chairman and Co-CEO, IronNet Cybersecurity
 Taher Elgamal, Chief Technology Officer, Security, Salesforce

Friday March, 15

07:30am - 08:45am

CERAWeek 2019: What lies ahead?

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit
 James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit
 Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit
 Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit
 Shankari Srinivasan, Vice President, Energy, IHS Markit
 Jone-Lin Wang, Vice President, Power and Renewables, IHS Markit

08:45am - 09:10am

Special Dialogue

Daniel Yergin, Vice Chairman, IHS Markit
 Governor Michael J. Dunleavy, Governor, Alaska

09:30am - 10:00am

What's Ahead in Washington?

Daniel Yergin, Vice Chairman, IHS Markit
Hon. John Cornyn, Senator, United States Senate (Texas)

10:00am - 11:00am

Competitiveness, Trade and the Future of Global Markets

Carlos Pascual, Senior Vice President, IHS Markit
Makan Delrahim, Assistant Attorney General, U.S. Department of Justice, Antitrust Division
Nicholas N. Eberstadt, Henry Wendt Chair in Political Economy, American Enterprise Institute
Christof Rühl, Economist, Crystal Energy
Ambassador Susan C. Schwab, Former U.S. Trade Representative, Professor at the University of Maryland and Strategic Advisor on International Trade at Mayer Brown

11:15am - 11:45am

Creating Resilient Cities for the Future

Cities are playing prominent and profound roles in changes underway in energy and mobility. They are focal points of innovation—both technologically and for policy. We will discuss how city leaders are shaping the future landscape for how people move around cities—and what powers them.

Daniel Yergin, Vice Chairman, IHS Markit
Mayor Sylvester Turner, Mayor, City of Houston

11:45am - 12:45pm

Energizing Energy Innovation: The long view

Carlos Pascual, Senior Vice President, IHS Markit
Dr. Robert Armstrong, Director, MIT Energy Initiative, Chevron Professor of Chemical Engineering, MIT
Jim Goldinger, Managing Director, ClearSky Power and Technology Fund
Steven Koonin, University Professor, New York University
Connor Prochaska, Chief Commercialization Officer and Director, Office of Technology Transitions, U.S. Department of Energy
Dr. Vijay Swarup, Vice President of Research and Development, ExxonMobil Research and Engineering Company

12:45pm - 01:45pm

Networking Lunch
